DB.

Panasonic

Operating Instructions

TV/VCR Combination

TX-29GV10 series
TC-29GV12 series
TC-29GV10 series
TX-25GV10 series
TC-25GV12 series
TC-25GV10 series

This is a combined Operating Instruction manual for all the above series of models.

Please read these instructions before operating your set and retain them for future reference.

TQB620940

Dear Panasonic Customer

Welcome to the Panasonic family of Customers.

We hope that you will have many years of enjoyment from your GAOO Televideo (TV/VCR Combination).

To obtain the maximum from your set, read these Instructions before making for any adjustments and retain them for future reference.

Retain your purchase receipt also, and note down the Serial Number of your set in the space provided on the rear cover of these Instructions.

GACO Televideo: Slim Cabinet	• with Hidden Hi-Fi VCR
Picture Quality	• Super 4-Video-Head System
Sound Quality	• Hi-Fi Stereo Sound
Easy Video Operation	
Simple, Straightforward Installation	
Quick, Easy Timer Programming	
Versatile Karaoke Functions	• Voice Cut • Voice Change • Random Song Choice • Intro Search makes it easy to find the start of a song on the tape. • Mixing/Echo functions • Two microphone sockets
Other Valuable Features	• New EASICON Remote Control • Dual Language On-Screen Indications (English/Chinese) • World 21-System • Two AV & S-Video Inputs and one VCR output • It is possible to record the programme on a different channel by means of 2-tuner system.

HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the VHS High Quality Picture System.
This system assures complete compatibility with VCRs that use the conventional VHS system.

Copyright

You may record TV broadcasts and musical programmes for your personal entertainment only.
You are not permitted to use them for any other purpose without the consent of the copyright holder.

AR (Anti-Reflection) Coating on the Screen of Type 29 Models.

The Picture Tube Screen is coated with a special material to hinder ambient light reflection and dust adherence. It aids picture performance during high ambient light conditions. The AR coating may be observed when the set is switch off, since the coating give the screen surface a faint purplish or blue hue. Take care not to mark or scratch this coating.

∴ Type 25 Models (Refer to page 6) are not equipped with the AR Coating.

Note:

Playback and Recording of S-VHS type tape is unavailable on this unit.

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How to Use This Manual

1. Check the Model Number of your TV set; the Model Number is shown on the rear cover name plate on the set. Use the table below to confirm which features your particular Model is equipped with. This will help you to know which sections of the manual apply to your set.
2. Check the Part Number on the rear of your Remote Control handpiece, and note the functions available, as shown on the opposite page.

Quick Reference Guide for your TV Set

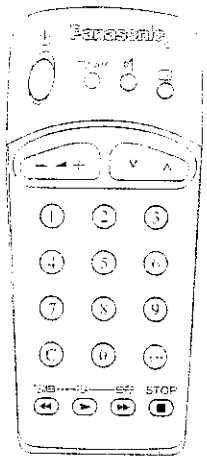
Please check the model number of your TV set.
This Manual applies to several Models and there are slight differences among them.

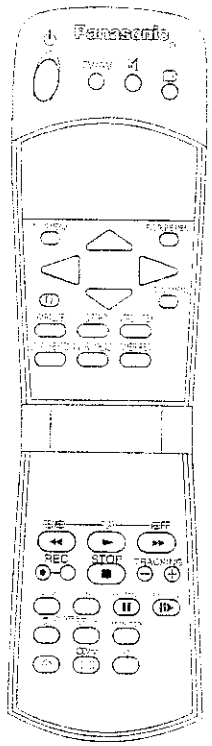
Please check the table below to see what your TV is equipped with before you begin using these Operating Instructions. Instructions are given for all functions, please disregard these which do not apply to your TV.

TYPE	Feature / Model No.	Teletext [Page 62]	Stereo				Picture Auto [Page 38]	Sound Auto [Page 39]	AR Coating
			NICAM (B, G) [Page 46]	NICAM (I) [Page 46]	A2 (GermanSystem) [Page 46]	AV STEREO AMPLIFIER			
29	TX-29GV10X	*	*	*	*	*	*	*	*
	TX-29GV10P	*	*	*	*	*	*	*	*
	TC-29GV12G		*	*	*	*	*	*	*
	TC-29GV10R					*	*	*	*
25	TX-25GV10X	*	*	*	*	*		*	
	TX-25GV10P	*	*	*	*	*		*	
	TC-25GV12G		*	*	*	*		*	
	TC-25GV10R					*		*	

* : Function available

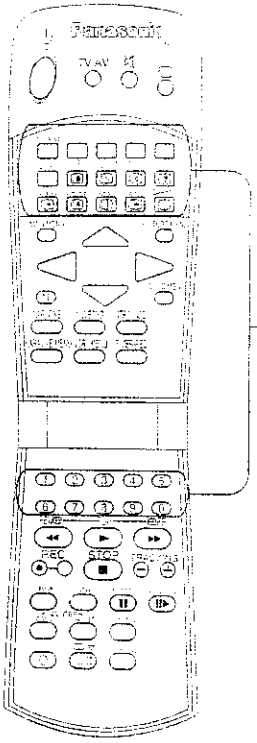
TC-29GV10R, TC-29GV12G
TC-25GV10R, TC-25GV12G
(Part No. EUR501121)





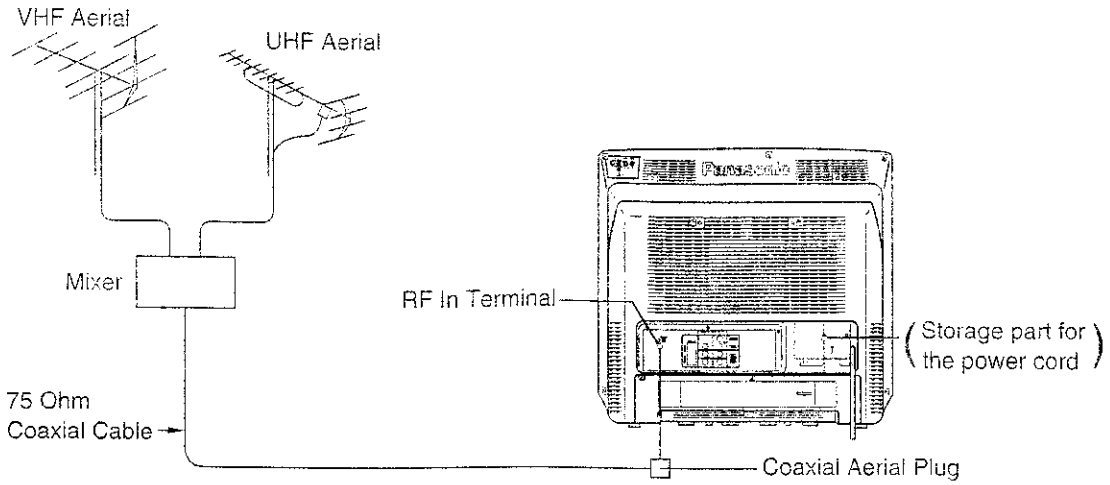
OPEN

TX-29GV10X, TX-29GV10P
TX-25GV10X, TX-25GV10P
(Part No. EUR501120)



Includes controls for the Teletext feature

Connect the Aerial Cable to the RF In Terminal

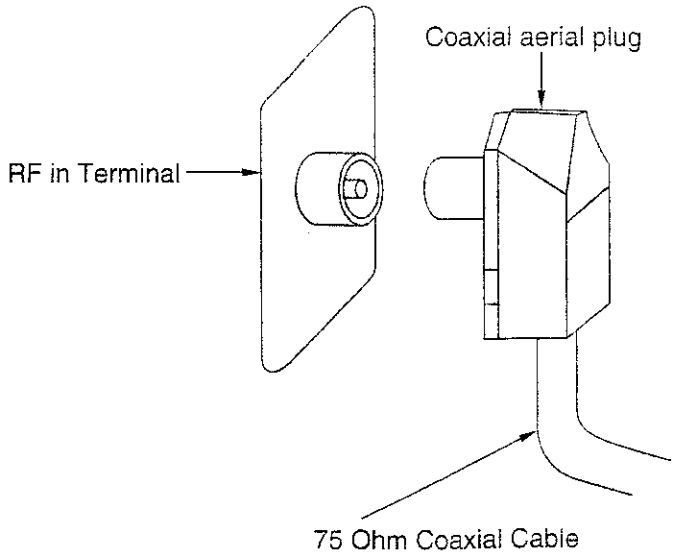


To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.

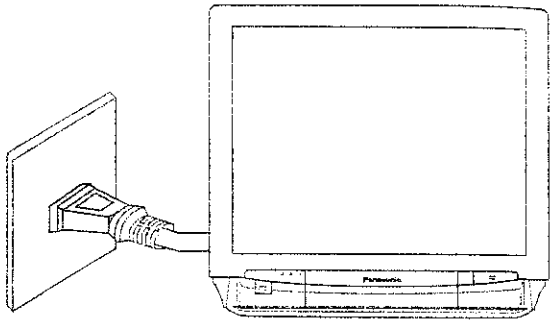
If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and your television receiver.

Your local Television Service Centre or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and accessories required.

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.



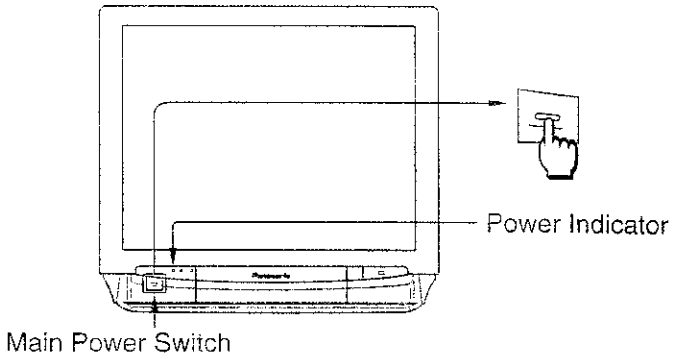
Connect the Plug to the Wall Outlet



Note:

- Mains plug types vary among countries.The mains plug shown at left may therefore not be the type fitted to your set.
- When connecting the mains plug to the wall outlet, the power indicator will light(Orange).
- When the power is switched ON first, Timer-setting indicator flashes because the time is not preset. Refer to page 22 as to presetting of the time.

How to Turn the Power On



Push the Main Power switch on the Television to turn the set on.

The Power Indicator (⏻)will light.

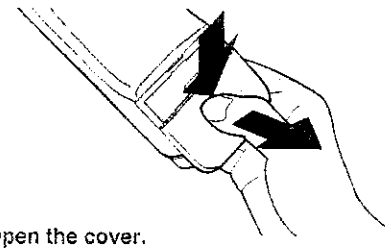
Power-OFF .....Orange
Stand-by .....Red
Power-ON.....Green

Note:

When in the Stand-by condition (Refer to page 34), it is possible to turn the TV set on by pushing the "Power (Stand-by)" Button or the Programme Number Up and Down Buttons on the TV set or Remote Control.

Battery Installation

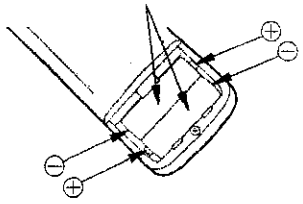
1



Open the cover.

Apply slight downward pressure while pulling towards the bottom.

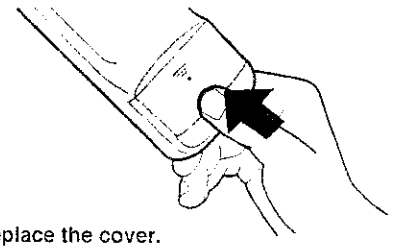
2 Two "R6 (AA)" size



Batteries:Use two "R6 (AA)" size batteries.

Insert the batteries ensuring correct polarity.This is identifiable by the "+" and "–" symbols on both the batteries and inside the battery compartment.

3



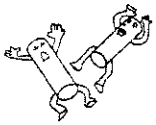
Replace the cover.

Do not use rechargeable (Ni-Cd) batteries.
They are different in shape and performance and may fail to ensure correct operation.

Battery precautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the Remote Control or cause the batteries to burst.

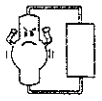
Old Batteries



New Batteries

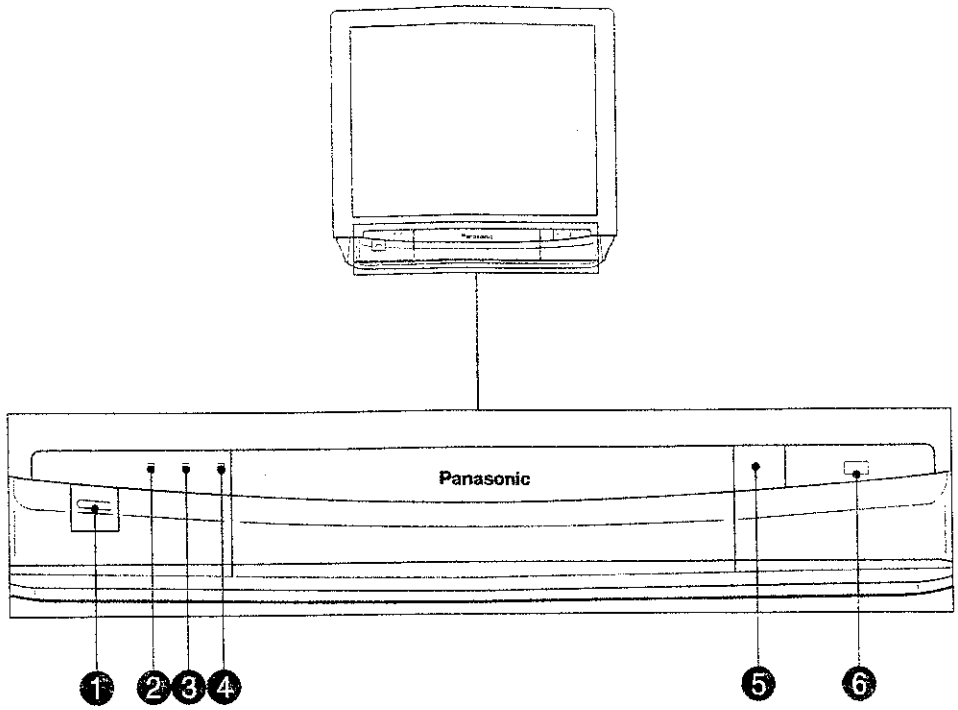
Replace both batteries at the same time.

Don't mix battery types (alkaline with carbon zinc, etc.)

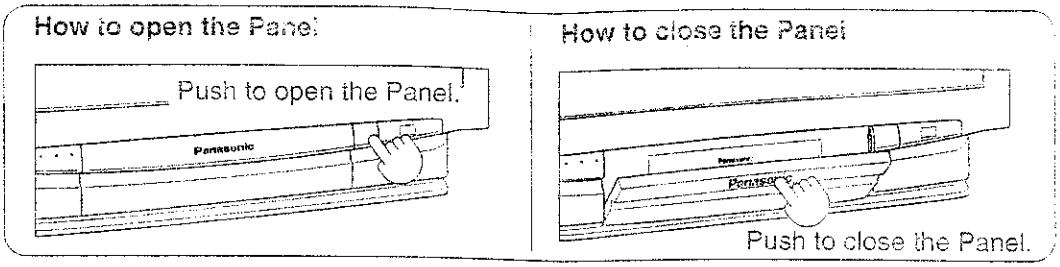


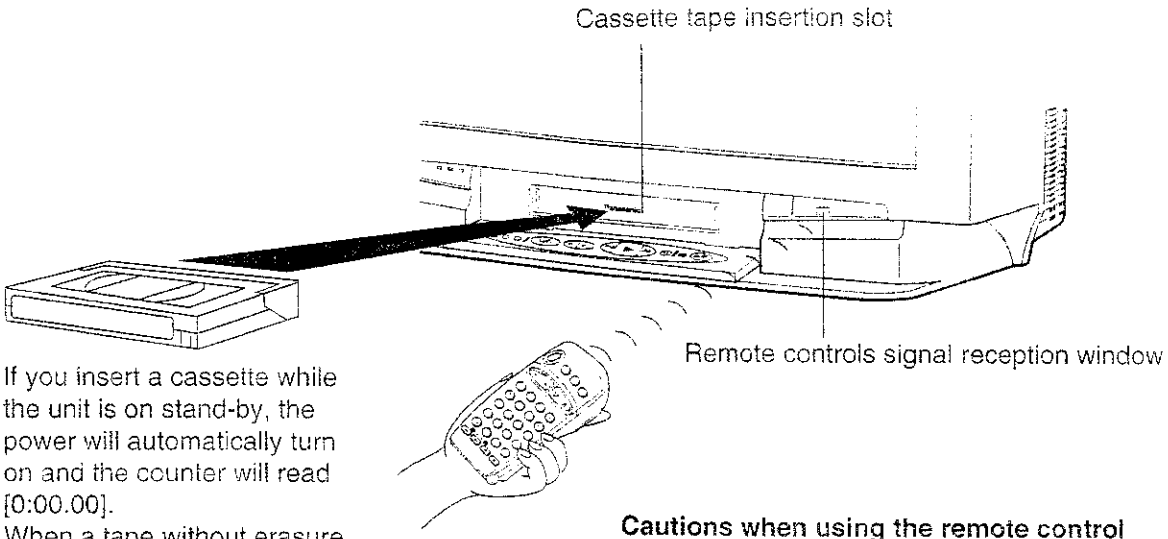
Don't Recharge.

Front Control Panel



Item No.	Button/Indicator	Function	Refer to Page
1		Main power	9
2		Stand-by/Power On Indicator	9
3	REC.(RED) PLAY(GREEN)	VCR Indicator	50, 52
4	TIMER -REC.	Timer recording Indicator	55
5		Opening button	11
6		Remote control signal reception window	11



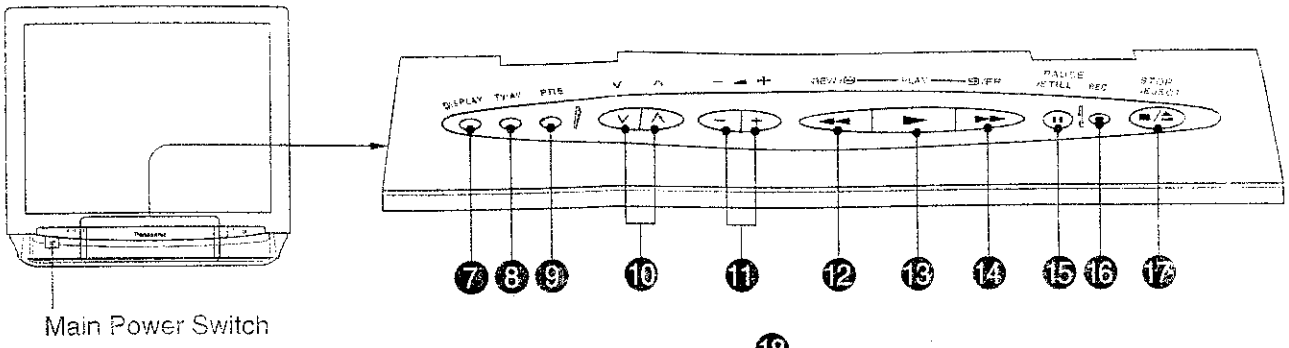


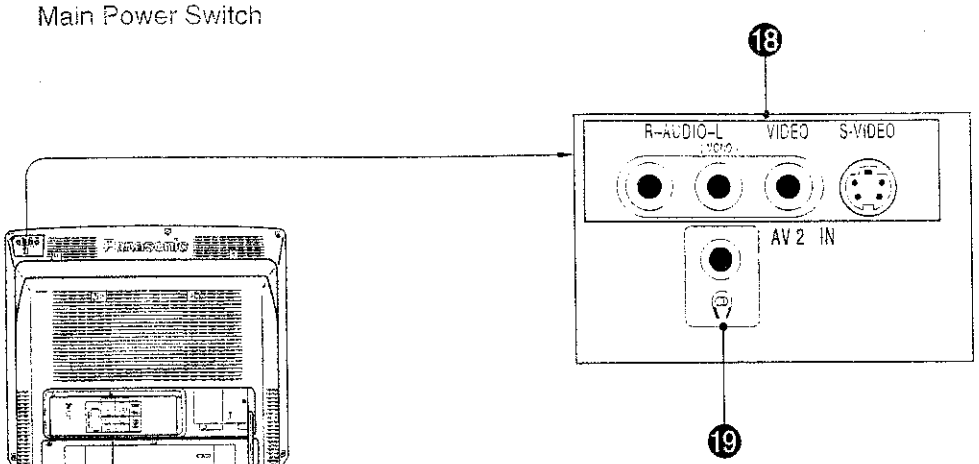
- If you insert a cassette while the unit is on stand-by, the power will automatically turn on and the counter will read [0:00.00].
- When a tape without erasure prevention tab is inserted, playback starts automatically.

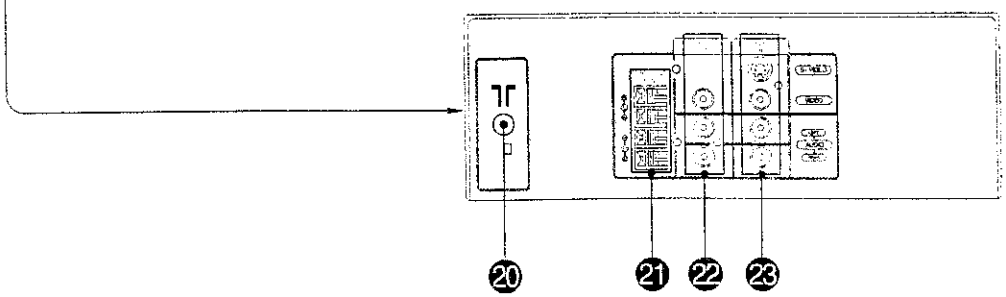
Cautions when using the remote control

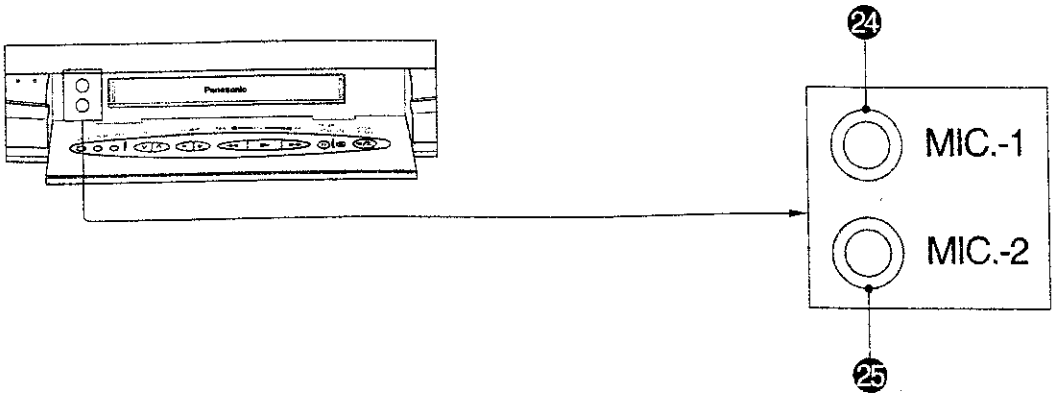
- Do not expose the transmitter to strong light.
- Do not drop or subject it a shock.
- Do not put it on places where temperature or humidity are high.
- Do not spill water on it nor put it on the wet objects.
- Do not disassemble it.

Controls and Terminals on the TV





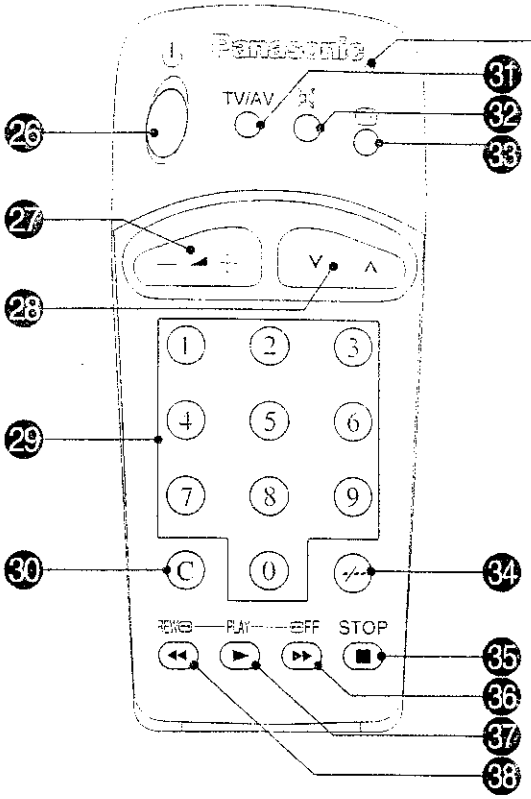




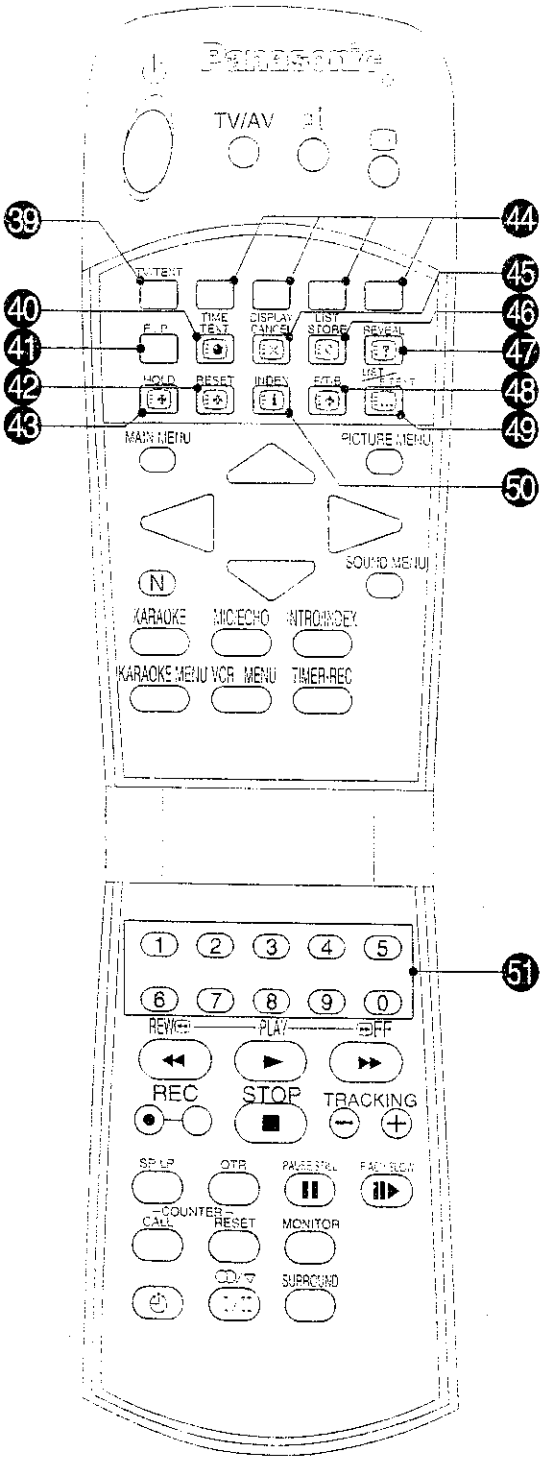
Item No.	Button	Function	Refer to Page
⑦	DISPLAY ○	Display	49
⑧	TV/AV ○	TV/AV Selection	35
⑨	PRE. ○	Preset	24, 26
⑩	V Λ (V | Λ)	Programme Number Up and Down	34
⑪	− + (− | +)	Volume Up and Down	34
⑫	REW./⊟ ◀◀	Rew (Rewind)/Review	37
⑬	PLAY ▶	Play	36
⑭	⊟/FF. ▶▶	FF (Fast Forward)/Cue	36
⑮	PAUSE /STILL ⏸	Pause/Still	37
⑯	REC ◉	Record	50
⑰	STOP /EJECT ■/⏏	Stop/Eject	36

Item No.	Description	Refer to Page
⑱	AV2 Input Terminals	18
⑲	Headphones Socket	19
⑳	Aerial Terminal (Also called the "RF in Terminal")	8
㉑	Surround Speaker Terminals	19
㉒	VCR Output Terminals	18
㉓	AV1 Input Terminals	18
㉔	Microphone 1 Socket	56
㉕	Microphone 2 Socket	56

Remote Control



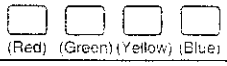
Remote control operation indicator
When the indication becomes dim, the batteries are required to be replaced. Replace them.



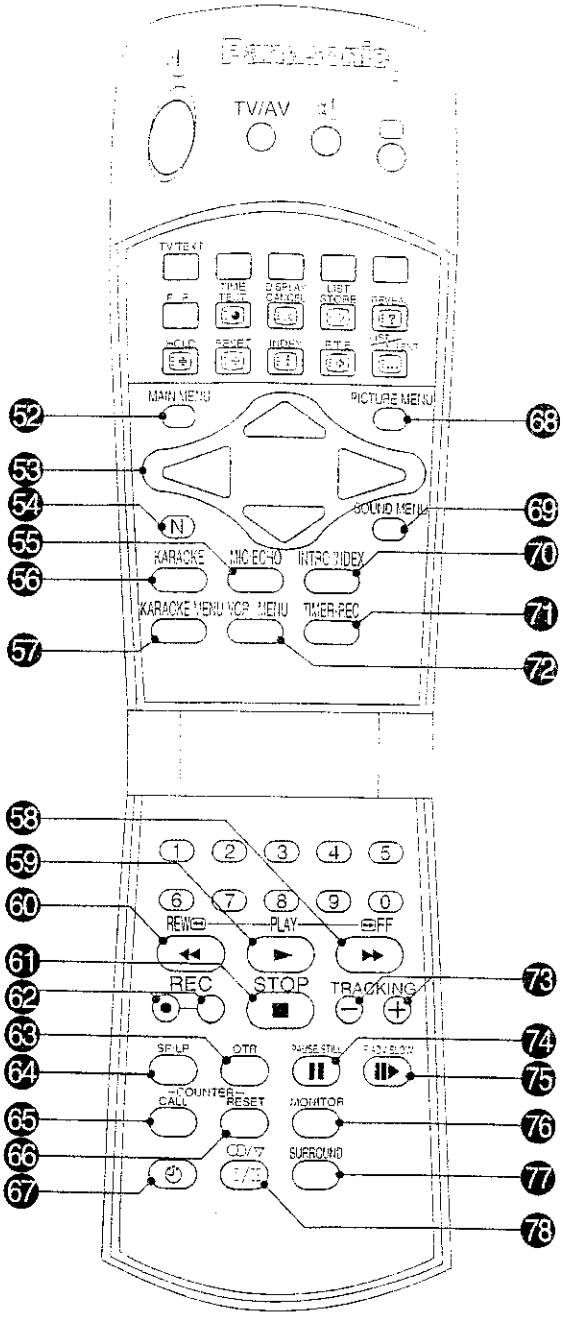
Note:

(1) This illustration shows the Remote Control with maximum features.
(Remote Control No. EUR501120)

(2) The buttons shaded are not present for Models not equipped with certain features. The table on page 6 and the diagram on page 7 identify such variations.

Item No.	Button	Function	Refer to Page
26		Power (Stand-by)	34
27		Volume Up and Down	34
28		Programme Number Up and Down	34
29		Direct Programme Number Selection	35
30		Channel Selection	35
31		TV/AV Mode Selection	35
32		Sound Mute	35
33		Recall	35
34		Two Digit Programme Number Selection	35
35		VCR Stop	36
36		VCR Fast Forward/Cue	36
37		VCR Play	36
38		VCR Rewind/Review	37
39		TV/TEXT Selection	62
40		Time Text	64
41		TEXT Favourite Page Selection	63
42		TEXT Reset	63
43		TEXT Hold	63
44	 (Red) (Green) (Yellow) (Blue)	TEXT Colour-coded Buttons	68
45		TEXT Display Cancel	71
46		TEXT List Store	68
47		TEXT Reveal	63
48		TEXT Full/Top/Bottom Selection	62
49		TEXT LIST/F.TEXT	68
50		TEXT Index	62
51		Numerical Buttons	62

Remote Control



Note:

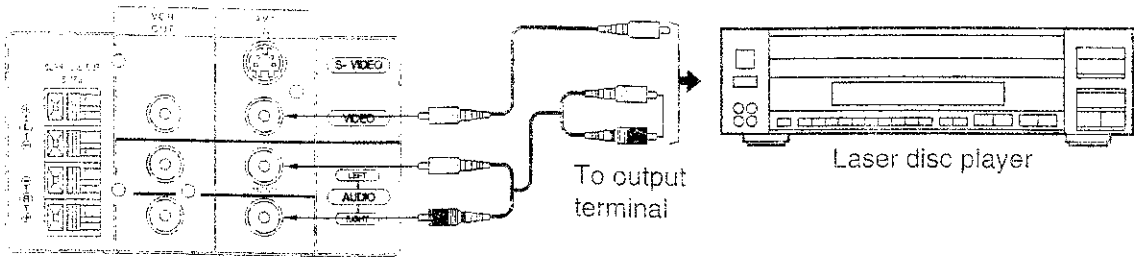
(1) This illustration shows the Remote Control with maximum features. (Remote Control No. EUR501120)

(2) The buttons shaded are not present for Models not equipped with certain features. The table on page 6 and the diagram on page 7 identify such variations.

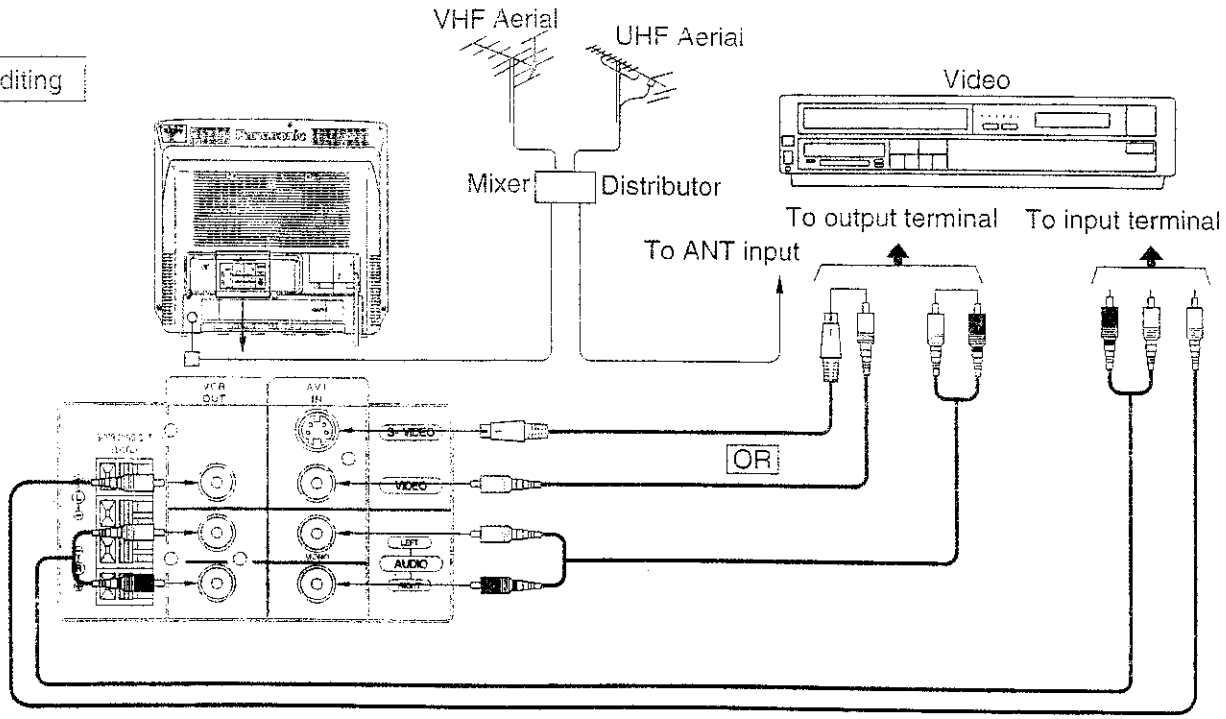
Item No.	Key	Function	Refer to Page
52	MAIN MENU	Main Menu Selection	40
53		Position Buttons	40
54	N	Normalisation	42, 43
55	MIC ECHO	MIC (Microphone)/ECHO Level Adjust	56
56	KARAOKE	KARAOKE	57
57	KARAOKE MENU	KARAOKE Menu	57
58	FF	VCR Fast Forward/Cue	36
59	PLAY	VCR Play	36
60	REW	VCR Rewind/Review	37
61	STOP	VCR Stop	36
62	REC	VCR Record	50
63	OTR	One-Touch Timer Recording	52
64	SP LP	Recording Standard or Long Play Selection	50
65	CALL	Counter Call	37
66	RESET	Counter Reset	37
67		OFF Timer Selection	49
68	PICTURE MENU	Picture Menu Selection	38
69	SOUND MENU	Sound Menu Selection	39
70	INTRO/INDEX	INTRO/INDEX	53, 60
71	TIMER-REC	Timer Record	55
72	VCR MENU	VCR Menu	55
73	TRACKING	Tracking Adjustment Buttons	37
74	PAUSE/STILL	VCR Pause Still	37
75	F.ADV/SLOW	VCR Frame Advance/Slow	37
76	MONITOR	Record Monitor	49
77	SURROUND	Surround Selection	48
78		Stereo/Bilingual Sound Selection	46

How to connect the "AV1 IN, AV2 IN and VCR OUT" Terminals.

Connection with Laser Disc Player



Tape Editing



Note:

(1) When AV1 or AV2 is selected, and that AV mode has no input picture signal, the Background Colour of the TV screen will change. (This only occurs if the Blue-Back function is set to the ON condition; refer to pages 44 and 45 for details.)

(2) When an S-Video cable is connected to the S-Video terminal. the Phono Video input will be automatically switched off for that AV mode.
VCR output signal is playback signal and recording signal only.

(3) For video signal in Colour System SECAM, connect to the video terminal because there in no standard on S-Video terminal.

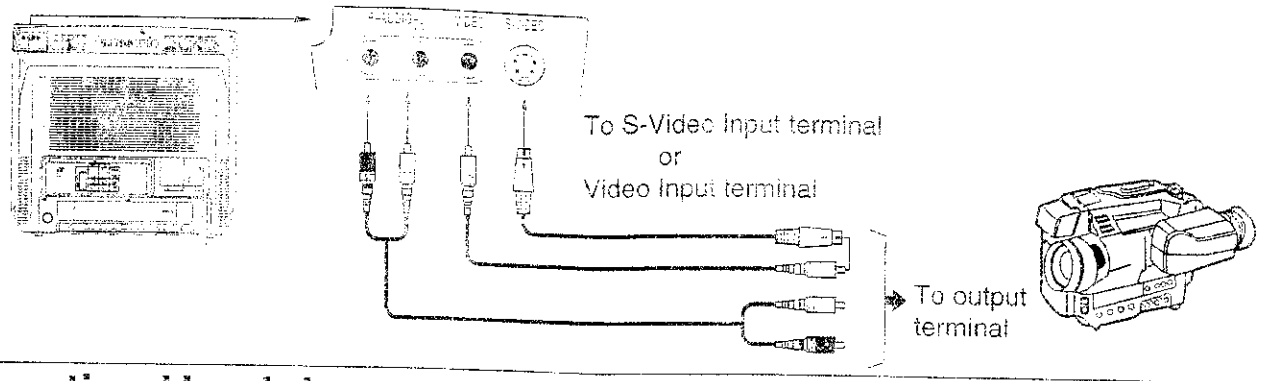
(4) When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "LEFT" terminal.

(5) Similar connections are available at the AV1 and AV2 input terminals.
Select the desired AV input position by pushing the TV/AV button. (Refer to page 35)

(6) VCR output signal is playback signal and recording signal only.

(7) Teletext displays on screen will not be output at the VCR output terminals.

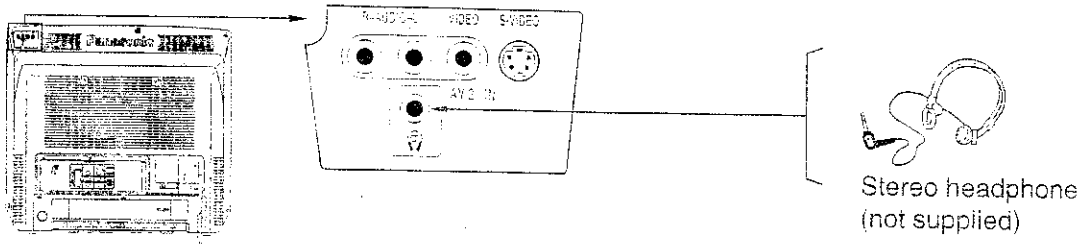
Connection with Video Camera



Connecting Headphones

Connect headphones as follows.

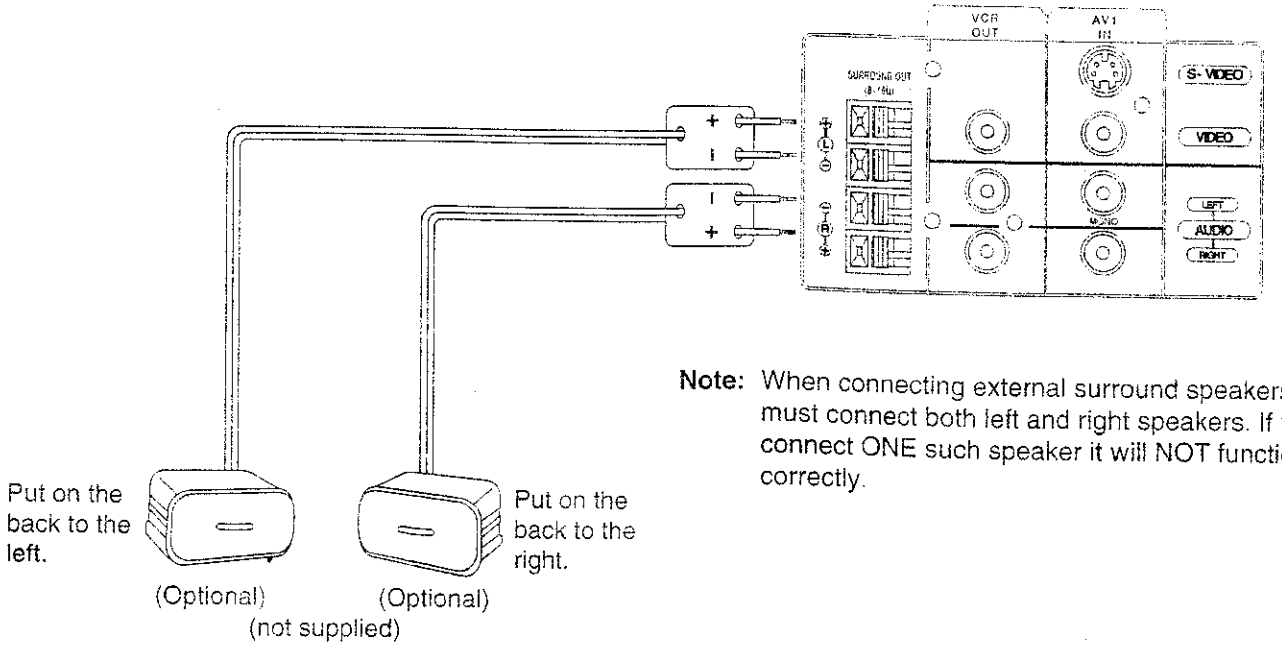
When a Headphones plug is inserted into the Headphones socket all speakers will be automatically disconnected; only the Headphones will function.



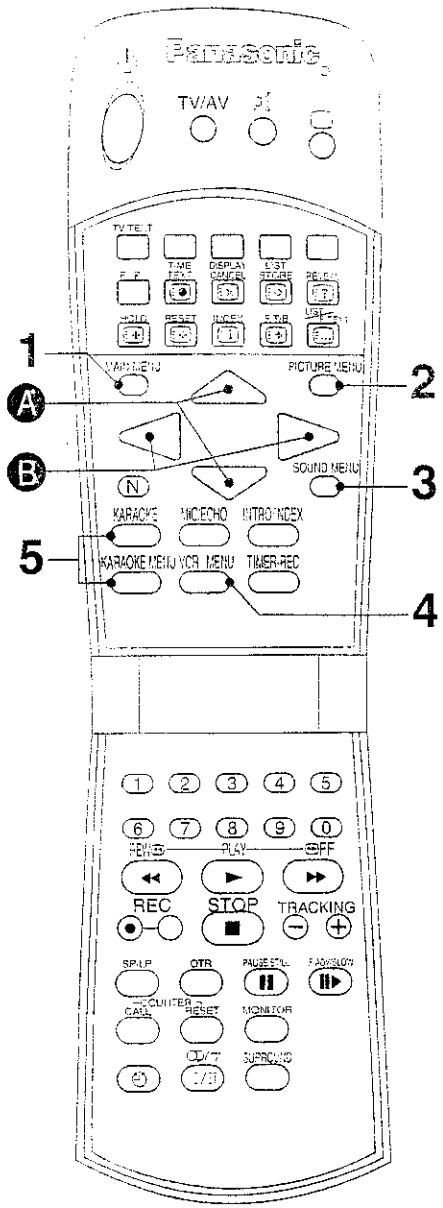
Connecting Surround Speakers

Connect the surround speakers as follows.

The Surround effect is enhanced by connecting external surround speakers. (optional)
Although it is possible to enjoy the "Surround effect "with this TV set as it is, upon connecting separate "Surround Speakers" the presence of the enveloping sound becomes more vivid.

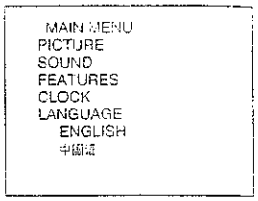


Note: When connecting external surround speakers, you must connect both left and right speakers. If you only connect ONE such speaker it will NOT function correctly.



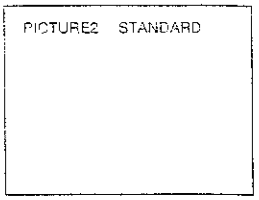
When each menu button is pushed. the following menu screens appear. It is possible to shift the cursor, to determine the designated items, to switch ON/OFF operations and to adjust the preset values by pushing the corresponding position buttons (Ⓐ • Ⓑ).

1 **MAIN MENU**



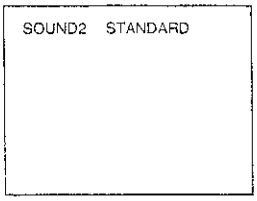
2 **PICTURE MENU**

This button is used for switching two picture menus.
(Refer to page 38.)



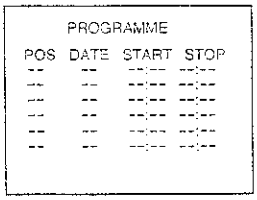
3 **SOUND MENU**

This button is used for switching two sound menus.
(Refer to page 39.)



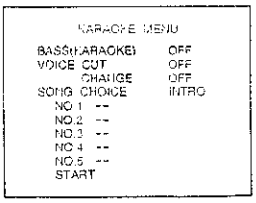
4 **VCR MENU**

Note: When the timer is not set, the mode turns to the timer-setting mode. (Refer to page 22.)



5 **KARAOKE MENU**

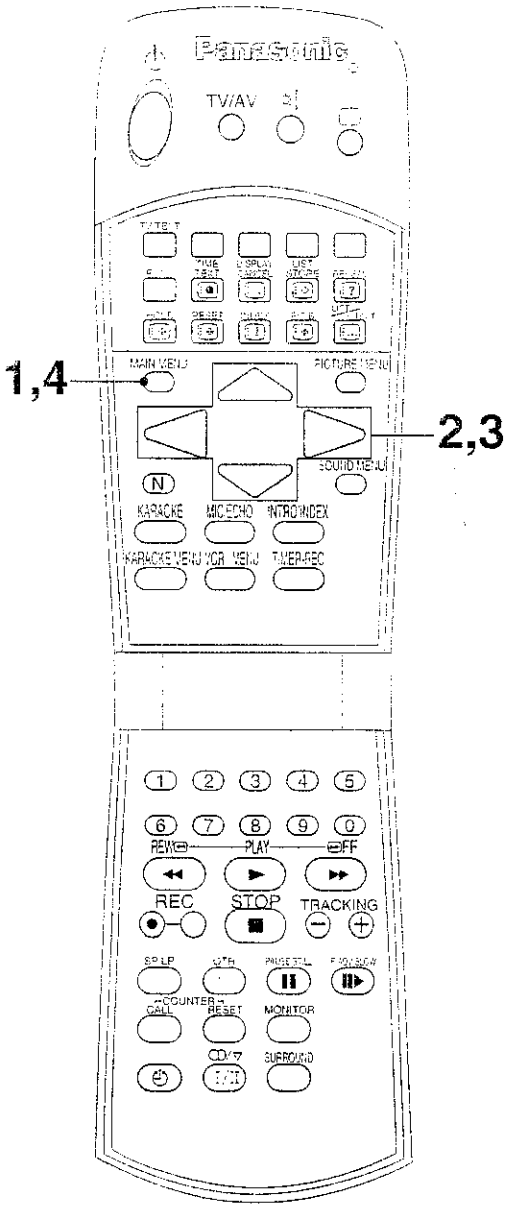
Note:
The menu at right will be displayed when the Karaoke button has been pushed and the unit is set at "Karaoke On."
This menu, however, will not be displayed when Karaoke is off.



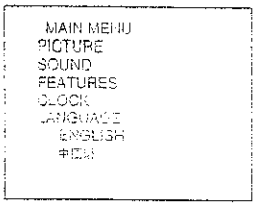
Functions of the position buttons

Ⓐ Up and down buttons:
- Shift the cursor up and down.
- Adjust the designated and preset values by the cursor.

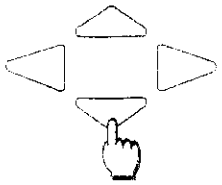
Ⓑ Left and right buttons:
- Determine the designated items by the cursor.
- Switch contents of designated items including ON/OFF operations by the cursor.
- Adjust the designated and preset values by the cursor.

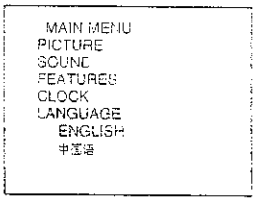


1 Push the "Main Menu" Button.

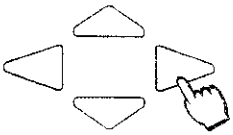


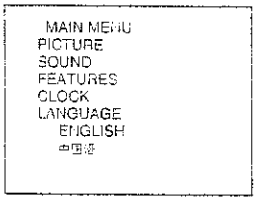
2 Push the "Position Up or Down" Button until your desired language position is reached. (English, Chinese)





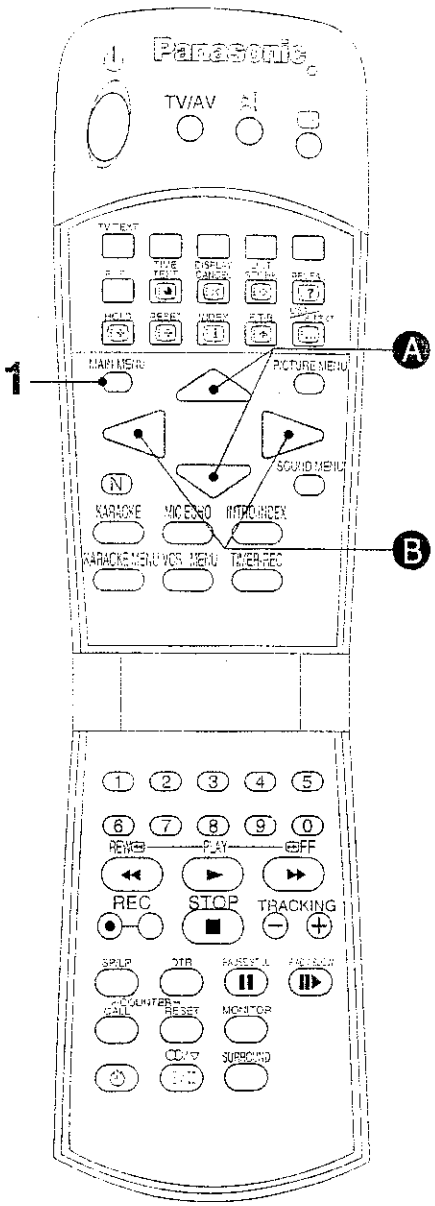
3 Push the "Position Left or Right" Button. The on-screen language display will change.



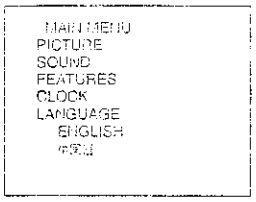


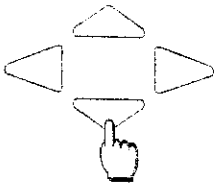
4 Push the "Main Menu" Button again to return to the normal viewing condition.

The timer recording indicator (orange) will flash on and off when the timer has not been set.

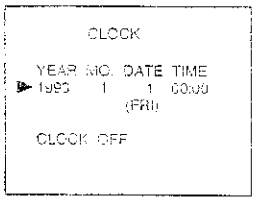


1 Push the "MAIN MENU" button and select "CLOCK" by using the Ⓐ Button.



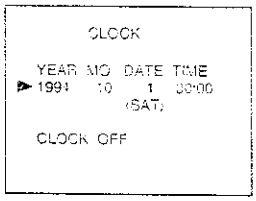


Display the "CLOCK" screen by using the Ⓑ Button.

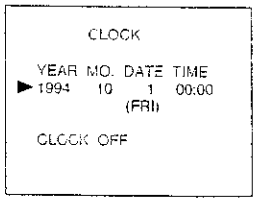


For example, when setting 14:28, October 1st, 1994,

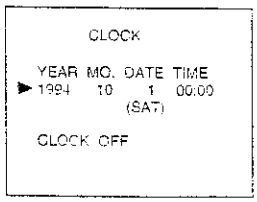
① Set the year.
Shift the cursor to "YEAR" by using the Ⓑ Button and set to "1994" by using the Ⓐ Button.



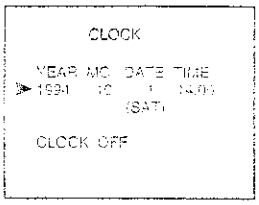
② Set the month.
Shift the cursor to "MO." (MONTH) by using the Ⓑ Button and set to "10" by using the Ⓐ Button.



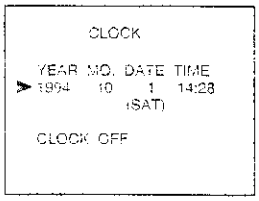
③ Set the date.
Shift the cursor to "DATE" by using the Ⓑ Button and set to "1" by using the Ⓐ Button.



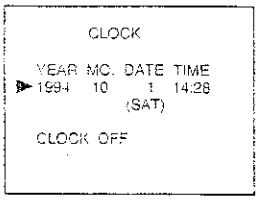
④ Set the time.
Shift the cursor to the first 2 figures of "TIME" by using the Ⓑ Button and set to "14" by using the Ⓐ Button.



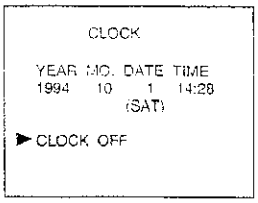
⑤ Set the minute.
Shift the cursor to the next 2 figures of "TIME" by using the Ⓑ Button and set to "28" by using the Ⓐ Button.



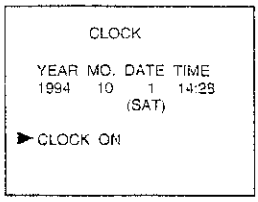
⑥ Put the cursor in the place of " ▶ " by using the Ⓑ Button.
If you do not move the cursor to the " ▶ " location, you will not be able to move the cursor to the clock.



⑦ Shift the cursor to CLOCK "OFF" by using the Ⓐ Button.



⑧ By pushing the Ⓑ Button, the mode turns to the CLOCK "ON" mode and the clock starts from 14:28:00.

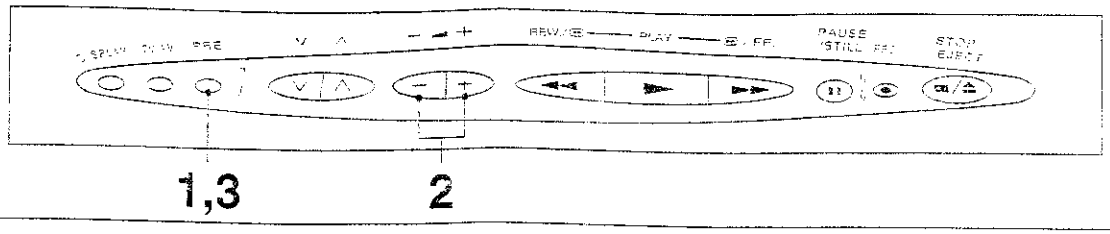


⑨ Push the MAIN MENU Button twice.

Note:

- If you wish to change the settings, use the A and B buttons, and move the cursor to the location you wish to change. Then change the setting time and turn the clock "off" and back "on".
- If you attempt to start the video mode in the VCR Menu without setting the timer, the unit will automatically bring up the clock screen.
- The unit will accept dates from 1988 through to December 31, 2087.

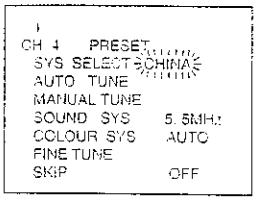
Country System Selection



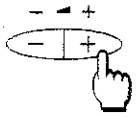
Before AUTO SEARCH tuning and MANUAL SEARCH tuning, set the "SYSTEM SELECT" mode, as detailed below.

1

Push the "PRE." (PRESET) Button, setting the Preset Menu to "SYS SELECT".



2



Select the appropriate System by pushing the Volume Up "+" or Down "–" Button, referring to "System Select by Country" as shown below.
The system select Indicator will change as follows.

CHINA ⟷ HK/UK ⟷ ASIA/M·E ⟷ NZ/INDONES ⟷ AUSTRALIA
↕ ↕
JAPAN ⟷ CATV ⟷ AMERICA ⟷ SPECL VER ⟷ E·EUROPE

3

Push the "PRE." (PRESET) Button 7 times.
This returns the set to the normal viewing condition.

System Select by Country

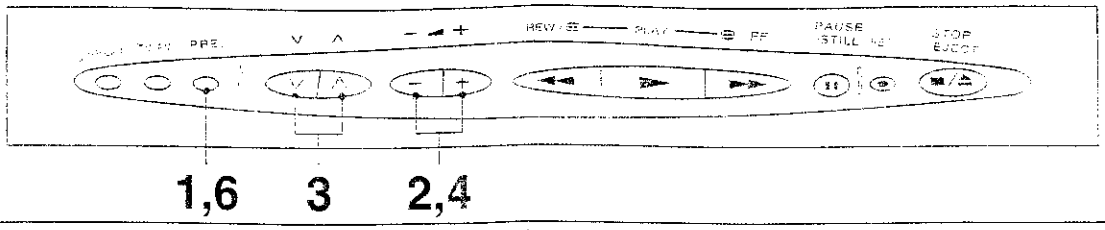
SYSTEM SELECT	COUNTRY
CHINA	China
HK/UK	Hong Kong, United Kingdom
ASIA/M•E	Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc.
NZ/INDONES	New Zealand, Indonesia, etc.
AUSTRALIA	Australia
E•EUROPE	CIS, Poland, etc.
SPECL VER	South Africa
AMERICA	U.S.A., Chile, Mexico, Panama, Peru, Philippines, Taiwan, Venezuela, etc.
CATV	USA CATV
JAPAN	Japan

Channel Allocation

- CATV (USA CATV) channel numbers as recommended by the joint EIA/NCTA Engineering committee and published as EIA INTERIM STANDARD No.6-CABLE TELEVISION CHANNEL IDENTIFICATION PLAN-MAY 1983.
- The receiving channels are as follows;

SYS SELECT	CHINA	HK/UK	ASIA/M•E	NZ/INDONES	AUSTRALIA	E•EUROPE	SPECL VER	AMERICA	CATV	JAPAN
CH DISPLAY	RECEIVE CHANNEL									
0	–	–	–	–	0	–	–	–	–	–
1	1	–	–	1	1	1	1	–	1	1
2	2	–	2	2	2	2	2	2	2	2
		–								
11		–	11	11	11	11	11			
12	12	–	12	–	12	12	12			12
13	13	–	–	–	–	–	13	13		13
14		–	–	–	–	–	–	14		
		–	–	–	–	–	–			
20		–	–	–	–	–	–			
21		21	21	21	–	21	21			
					–					
28					28					
57	57									
58	–									
	–									
62	–	62	62	62	62	62	62	62	62	62
63	–	63	63	63	63	63	63	63	63	C13
	–									
69	–	69	69	69	69	69	69	69		
70	–	–	–	–	–	–	–	–		
	–	–	–	–	–	–	–	–		
73	–	–	–	–	–	–	–	–		
74	–	S'1	S'1	S'1	–	S'1	S'1	–		
75	–	S'2	S'2	S'2	–	–	S'2	–		
76	–	S'3	S'3	S'3	–	–	S'3	–		
77	–	–	–	–	–	–	–	–		
78	–	–	–	–	–	–	–	–		
79	–	–	–	–	–	–	–	–		
80	–	S1	S1	S1	–	S1	S1	–		
81	Z1	S2	S2	S2	–	S2	S2	–		
					–			–		
89	Z9	S10	S10	S10	–	S10	S10	–		
90	Z10	S11	S11	S11	5A	S11	–	–		
91	Z11	S12	S12	S12	9A	S12	–	–		
92	Z12	S13	S13	S13	–	S13	–	–		
93	Z13	S14	S14	S14	–	S14	S14	–		
94	Z14	S15	S15	S15	–	S15	S15	–		
95	Z15	S16	S16	S16	–	S16	S16	–		
96	Z16	S17	S17	S17	–	S17	S17	–		
97	–	S18	S18	S18	–	S18	S18	–		
98	–	S19	S19	S19	–	S19	S19	–		
99	–	S20	S20	S20	–	S20	S20	–	99	C49
100	–	–	–	–	–	–	–	–	100	–
	–	–	–	–	–	–	–	–		–
125	–	–	–	–	–	–	–	–	125	–

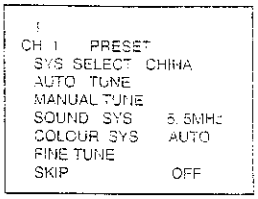
Automatic Search (Country System must already be set; Refer to page 24)



This TV set will search automatically through all of the VHF and UHF bands.
After completion, the best tuning position for each broadcast channel is automatically memorized on each Programme Number sequentially, starting Programme Number "0" or "1".

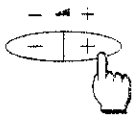
1

Push the "PRE." (PRESET) Button twice.

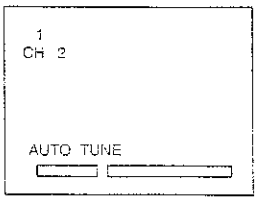


Automatic Search "AUTO TUNE" Condition.

2



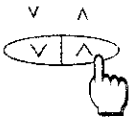
Push the Volume Up "+" or Down "–" Button.



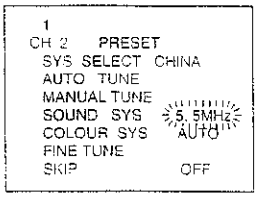
Search Start.

The best tuning position is automatically memorized.

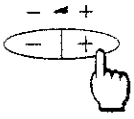
3



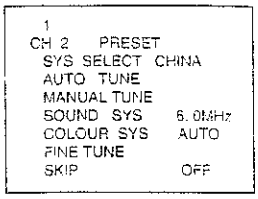
After all stations are tuned, the on-screen display will automatically change from "AUTO TUNE" to "SOUND SYS" Position. Confirm the sound condition of each Programme Number by using the Programme Number Up "^" Button.
If the Sound is not clear or no sound is produced on a Programme Number, then follow the next step, Step 4.



4



If necessary, push the Volume Up "+" or Down "–" Button, to improve the Sound quality.
Note:
When sound volume is too small to confirm, turn it up by using the sound volume button of the remote control.



The sound indicator will change as follows.

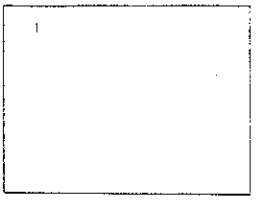
4.5MHz ↔ 5.5MHz
6.5MHz ↔ 6.0MHz

5

Use the Programme Number Up "∧" button to sequentially check each station.
If necessary, repeat step 4 for each Programme Number.

6

After all stations are tuned, push the "PRE." (PRESET) Button 4 times.



This returns the set to the normal viewing condition.
A maximum of 49 channels can be programmed into a different.
Programme Number memory locations.

Helpful Hint

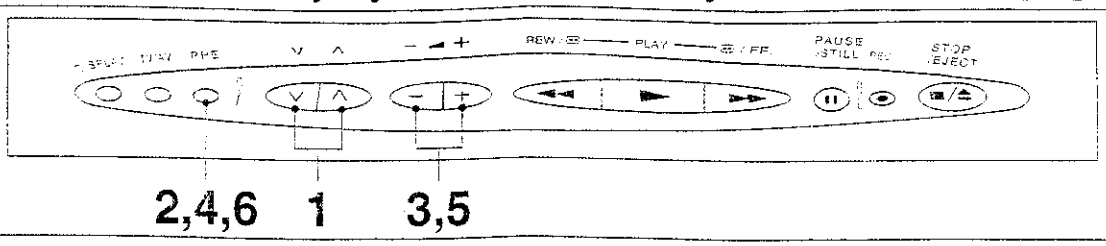
(1) If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 32.

(2) After the Automatic Search is finished, push the Programme Number "Up" Button to confirm the tuning condition for each Programme Number. If some Programme Numbers are unused, it is possible to skip such Programme Numbers. Please refer to the Programme Number Skip operation on page 31.

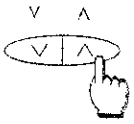
(3) Repeated pushing of the "PRE." (PRESET) button changes the Preset Menu as follows:

→ SYS SELECT (Page 24) → AUTO TUNE (Page 26) → MANUAL TUNE (Page 28) → SOUND SYS (Page 32) →
← TV Mode (Normal viewing condition) ← SKIP (Page 31) ← FINE TUNE (Page 30) ← COLOUR SYS (Page 32) ←

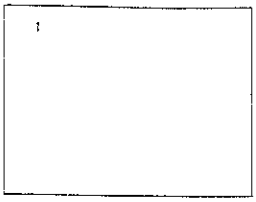
Manual Search (Country System must already be set; Refer to page 24)



1



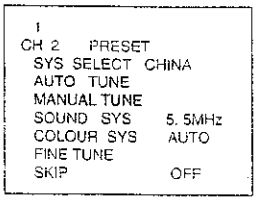
Push either the Programme Number Up "Λ" or Down "V" Button.



Select the desired Programme Number.

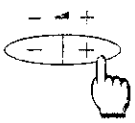
2

Push the "PRE." (PRESET) Button 3 times.



Manual Search "MANUAL TUNE" Condition.

3

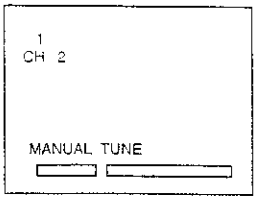


Push the Volume Up "+" or Down "−" Button.

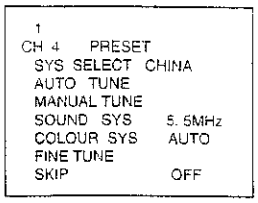
Volume "+": Next higher Channel

Volume "−": Next lower Channel

Note:
You can also select a specific channel by pushing the desired channel Number after pushing the "C" (channel) Button. (Refer to page 35)



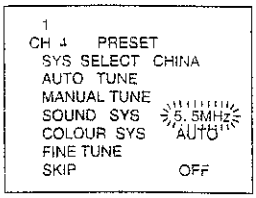
Search Start.



The best tuning position is automatically memorized.

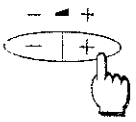
4

Push the "PRE." (PRESET) Button.



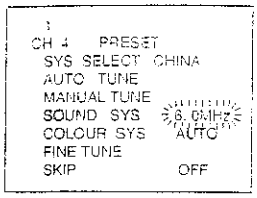
"SOUND SYS" Condition.

5



If the sound is not clear or no sound is produced on a Programme Number Position, push the Volume Up "+" or Down "–" Button.

Note:
When sound volume is too small to confirm, turn it up by using the sound volume button of the remote control.



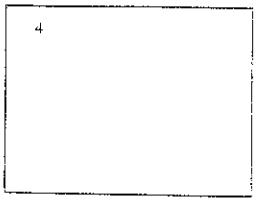
You may improve the Sound quality.

The sound indicator will change as follows.

4.5MHz ↔ 5.5MHz
6.5MHz ↔ 6.0MHz

6

Push the "PRE." (PRESET) Button 4 times.



This returns the set to the normal viewing condition.

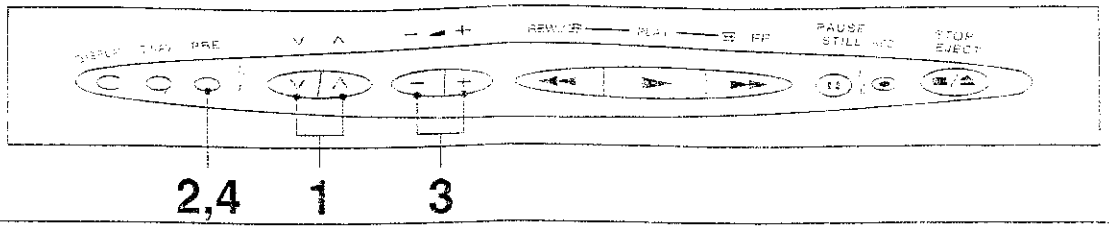
Helpful Hint

(1) If a clear picture cannot be obtained even when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 32.

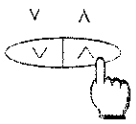
(2) After the Manual Search is finished, push the Programme Number "Up" Button to confirm the tuning condition for each Programme Number. If Programme Numbers are unused, it is possible to skip such Programme Numbers. Please refer to the Programme Number skip operation on page 31.

(3) When using VCR without video and audio input/output terminals for, it is convenient to connect the aerial cable as indicated in the instruction manual of VCR and to set the designated channel to programme No. "0". In that case, perform manual search after setting the colour system and sound system in advance. Further, in multi-system VCR, it is much convenient to set the designated channel to several programme Numbers.

Fine Tuning



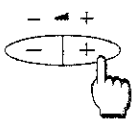
Under normal reception conditions this function is not required or necessary.
However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

1 

Select the channel which you want to try to improve, using the Programme Number Up "∧" or Down "∨" Buttons.

2

Push the "PRE." (PRESET) Button 6 times, setting the Preset menu to "FINE TUNE".

3 

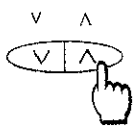
Push and hold the Volume Up "+" or Down "–" Button until a clearer picture is received.
The "■" symbol appears to the left of the Programme Number. After fine tuning has been adjusted. This symbol tells you that the set's Automatic Fine Tuning has been disabled for that Programme Numbers.

4

Push the "PRE." (PRESET) Button twice, to return the set to the normal viewing condition.

How to Cancel the Fine Tuning Function

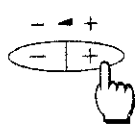
Cancelling previously adjusted (manually) fine tuning, means re-activating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Fine Tuning). Re-activating the Automatic Fine Tuning means albaming the set to automatically tune to the optimum tuning position, for that Programme Number.

1 

Select the "AFC OFF" Programme Number which you want to return to Automatic Frequency Control (cancel the manual fine tuning).
"AFC OFF" Programme Numbers are indicated to you by the "■" symbol to the left of the Programme Numbers in the On-Screen-Display.

2

Push the "PRE." (PRESET) Button 3 times, setting the Preset menu to "MANUAL TUNE".

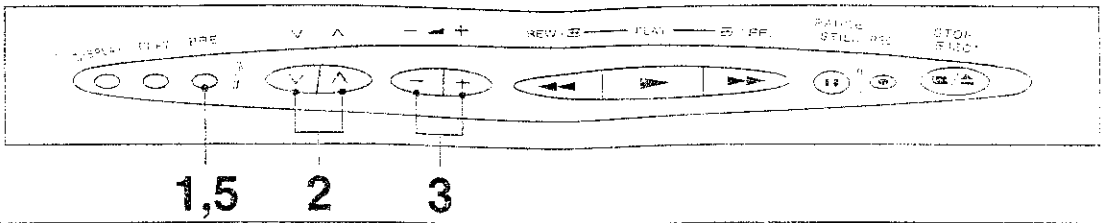
3 

Push the Volume Up "+" and then the Down "–" Button, briefly.
The best tuning position is automatically memorised.
(In other words, manually tune away from the transmission, and then back to it.)

4

Push the "PRE." (PRESET) Button 5 times, to return the set to the normal viewing condition.

Programme Number Skip



It is possible to step Programme Numbers on which no TV stations are tuned appearing on the screen. The function is only effective when selecting Programme Numbers by pushing the Programme Number Up or Down Buttons either on the TV set or the Remote control.

1 PRE.

Push the "PRE." (PRESET) Button 7 times, setting the Preset menu to "SKIP".

2 ∨ ∧

Select a Programme Number you want to skip, by pushing the Programme Number Up "∧" or Down "∨" Buttons.

3 − +

Push the Volume Up "+" or Down "–" Button.
The displayed "OFF" condition changes to "ON"

4 2 3

Repeat Steps 2 and 3 for the remaining Programme Numbers for which the Skip function is desired.

5 PRE.

After Skip operation is completed, push the "PRE." (PRESET) Button (once) to return the set to the normal viewing condition.

How to Cancel the Skip Function

1 PRE.

Push the "PRE." (PRESET) Button 7 times, setting the Preset menu to "SKIP".

2 ∨ ∧

Select the skipped Programme Number, by pushing the Programme Number Up "∧" or Down "∨" Buttons.

3 − +

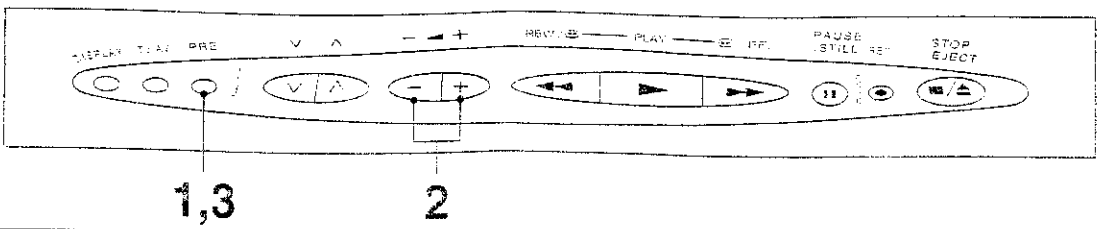
Push the Volume Up "+" or Down "–" Button.
The displayed "ON" condition changes to "OFF".

4 2 3

Repeat Steps 2 and 3, if you wish to cancel the Skip function on any other Programme Number.

5 PRE.

After the Skip Cancel operation is completed, push the "PRE." (PRESET) Button (once) to return the set to the normal viewing condition.



Sound System Selection (Different countries use differing systems)

1 PRE.

(This function is used only in the TV mode, and is not applicable in AV Mode)
When the sound is not clear or no sound is produced on a Programme Number, push the "PRE." (PRESET) Button 4 times, setting the Preset Menu to "SOUND SYS".

2 – + – +

Push the Volume Up "+" or Down "–" Button repeatedly until the optimum sound is obtained.
The sound system will change as shown.

4.5MHz ↔ 5.5MHz ↔ 6.0MHz ↔ 6.5MHz

Note: These are different sound broadcast transmission systems applicable to differing countries.

3 PRE.

Push the "PRE." (PRESET) Button 4 times to return the set to the normal viewing condition.
The selected Sound System is automatically memorised.

Colour System Selection (Different countries use differing systems)

1 PRE.

If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received, push the "PRE." (PRESET) Button 5 times, setting the Preset Menu to "COLOUR SYS". In AV mode it is only necessary to push the "PRE." (PRESET) button once.

2 – + – +

Push the Volume Up "+" or Down "–" Button repeatedly until the optimum image is produced.
The colour system will change as shown.

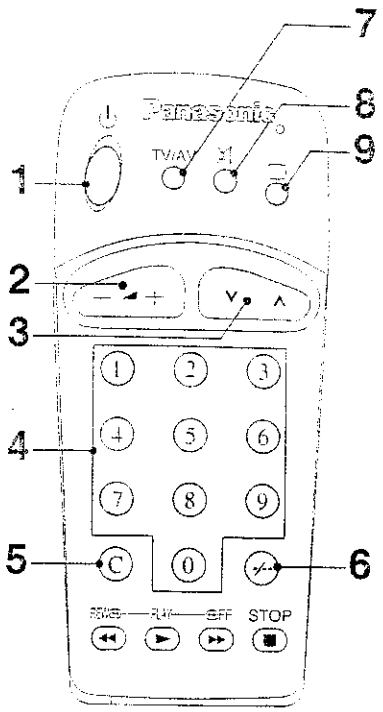
AUTO ⟷ PAL ⟷ SECAM
⇕ ⇕
NTSC 3.58 ⟷ NTSC 4.43

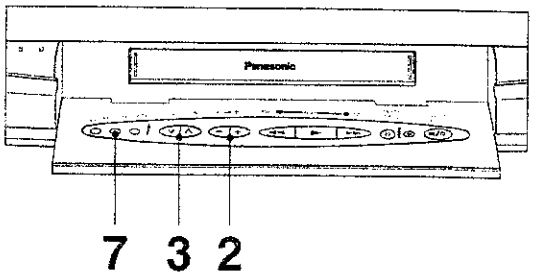
Note: PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries. NTSC 4.43 is a trick playback mode used in special VCR's to playback NTSC recorded video tapes. When you want to see the playback signal of NTSC-4.43, set the COLOUR SYSTEM mode to NTSC-4.43 because it is difficult to discriminate it at COLOUR SYSTEM AUTO mode.

3 PRE.

Push the "PRE." (PRESET) Button 3 times. (In AV Mode it is only necessary to push the "PRE." (PRESET) button once.) to return the set to the normal viewing condition.
The selected Colour System is automatically memorised.

Operation of TV part





1

How to switch the power ON or OFF

The TV set must first be switched on at the wall outlet and at the Main Power Switch. (Refer to page 9)

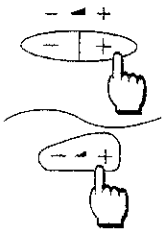
Push this button to turn the TV set ON, from STANDBY mode.

Push it again to turn the TV set OFF. (to STANDBY)

Note:

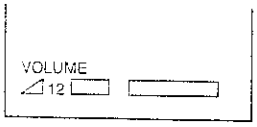
It is also possible to turn the TV set on STANDBY by pushing the "Direct Programme Number Selection" Buttons (0-9) and the "Programme Number Up or Down" Button, either on the set or on the Remote Control.

2



Volume Adjustment

Push the Volume Up "+" or Down "–" Button to increase or decrease the sound volume level.

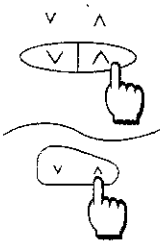


Note:

The on-screen display will indicate both numerically and graphically the volume level. Numeric levels start at "0" for zero or no sound, and will increase up to 63 which is the maximum sound level.

Volume level is displayed at the top of the screen when KARAOKE mode is switched ON.

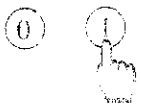
3



Programme Number Selection

Push the Programme Number Up "∧" or Down "∨" Button to select the next higher or lower Programme number.

4



Direct Programme Number Selection (Programme Numbers 0-9)

You can select the numbers 0 to 9 directly by pushing the corresponding number button on the Remote Control. (Setting range: 0~49)

Note:

(1) If the sound is not clear or no sound is produced on a Channel position, refer to the "Sound System Selection" Operation on page 32.

(2) Channel 0 can only be selected when AUSTRALIA mode is selected in SYSTEM SELECT. Refer to the Channel Allocation on page 25.

(3) Incorrect results will occurs with this function if Country System Selection hasn't previously been correctly set. (Refer to page 24)

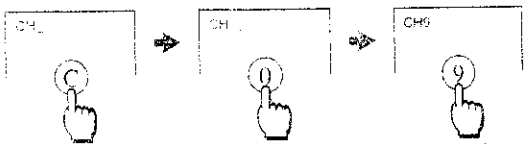
5

Channel Select Button

You can select the actual channel number which can be received in your area directly.

Push the "C" (Channel) Button, then select the desired channel directly.

e.g. To select broadcast transmission Channel Number "9".



6

Two Digit Programme Number Selection

You can select the two Digit Programme Numbers with the "Two Digit" and "Programme Number 0-9" Buttons.

e.g. "12" -/-- → 1 → 2

7

TV/AV Selection

Push the "TV/AV" Button to select TV, AV1, AV2 input signal modes sequentially.

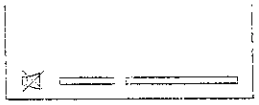
When a video tape is being played back, the mode can be selected TV, video screen, AV 1 and AV 2.

8

Sound Mute Button

Push this button to mute the sound completely.

The "Mute" symbol will appear. (colour change to Red)

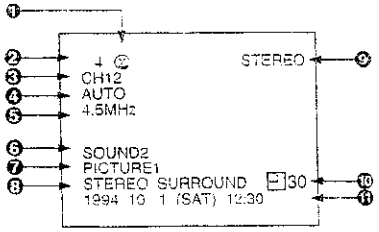


Push the button once again to restore the previous sound level, and cancel the mute.

9

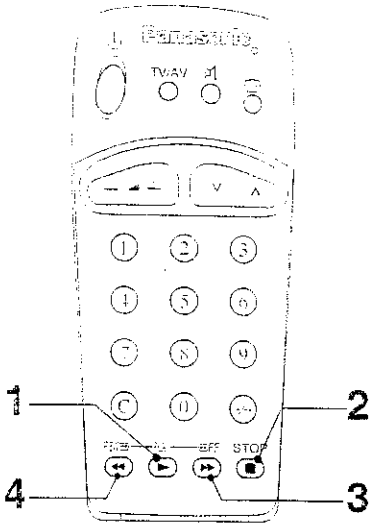
Recall Button

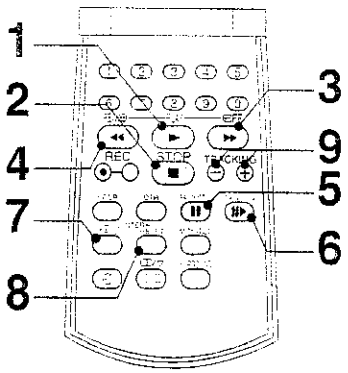
When this button is pushed, the following contents are displayed and it is possible to use and displaying the necessary items.

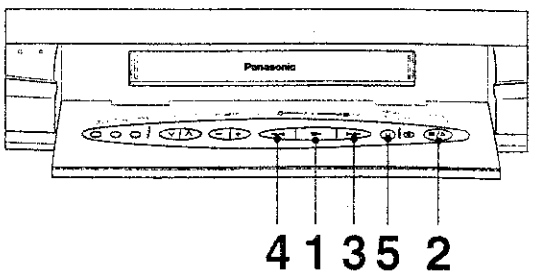


❶ VCR/GAME Indicator (Page 44)
❷ Programme Number (Page 34)
❸ Channel Number (Page 25)
❹ Colour System (Page 32)
❺ Sound System (Page 32)
❻ Sound Menu (Page 39)
❼ Picture Menu (Page 38)
❽ Surround Mode (Page 48)
❾ Audio Mode (Page 46)
❿ OFF Timer (Page 49)
⓫ Present date (Page 22)

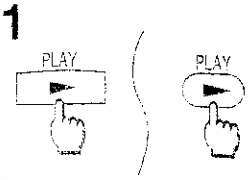
VCR Operation





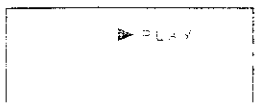


1



PLAY Button

Push this button to playback the tape.



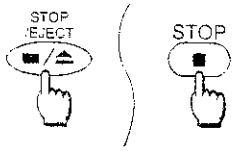
Note:

- Whenever playing a tape, the mode is automatically switched over to the "VIDEO" mode even if the TV is set to the "TV" mode.
- When a cassette tape without erasure prevention tab is inserted, playback starts automatically.
- When playing starts, VCR indicator lights up. (Green)

Remark:

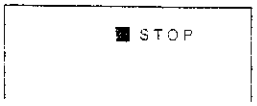
If the "Dew" display appears on the screen, this indicates that moisture has accumulated inside the unit. The unit can not be played while "Dew" is being displayed, and the unit should only be used after drying.

2

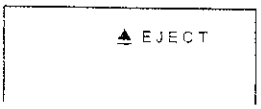


STOP/EJECT Button

Push the "STOP" Button to stop the tape.



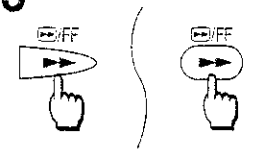
When "STOP/EJECT" button of the TV set is pushed at stop mode, the tape is automatically ejected.



Note:

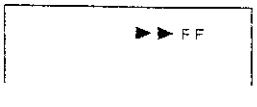
Ejection is possible even when the stand-by condition.

3



FF (Fast Forward)/Cue Button

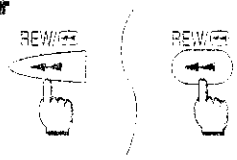
Push this button to fast forward the tape. During playback mode, holding this button down will allow you to view the picture in the forward direction rapidly.
(When you hold for more than 10 min., the mode turns to playback.)



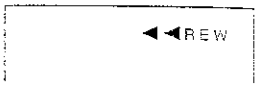
Note:

When the tape reaches its end, it is rewound to the beginning automatically.

4

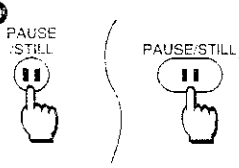


REW (Rewind)/Review Button
Push this button to rewind the tape. During playback mode, holding this button down will allow you to view the picture in reverse rapidly. (When you hold for more than 10 min., the mode turns to playback.)

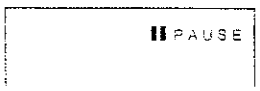


Note:
When the power is switched off during rewinding, the power of the TV is shut off immediately, but the power of the VCR section is shut off only after completion of rewinding (REWIND SHUT OFF).

5



PAUSE/STILL Button
Push to stop the tape temporarily during playback and recording.
During playback: Still picture.
During recording: To interrupt recording.



Note:
When Pause and still is continued for more than 5 minutes, it is automatically cancelled for protection of the tape. When either FF/Cue playback, REW/Review playback or slow playback is continued for more than 10 min., mode returns to the normal playback mode for protection of the tape.
The VCR Indicator (Red) blinks during pause.

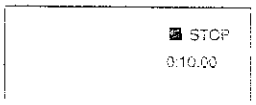
6

F. ADV/SLOW Button (Frame Advance)
Push this button during Still Mode. Each time you push this button, the Still picture is advanced, frame by frame.

When this button is pushed during playback, the mode turns to slow playback (When you hold slow playback mode for more than 10 min., the mode turns to STOP mode.)
Push either "PLAY" or "STOP" button to cancel.

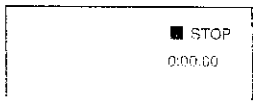
7

Displaying the Tape Counter.
Make sure that a tape is inserted. The playback time after insertion of the tape is shown after pushing the CALL button. Push the button once again to cancel.



8

Resetting the Tape Counter.
Push the RESET button; the counter resets to "0:00.00".

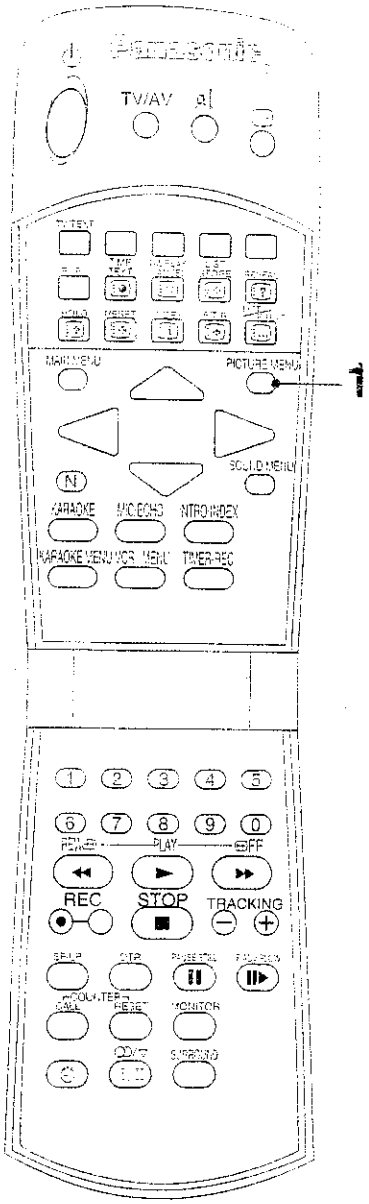


9

TRACKING Button
When the playback picture is not clear, push the TRACKING buttons "∧" and "∨" to adjust for best picture.

Note:
When this button is pushed, the mode turns to manual tracking mode.
Mode returns to automatic tracking mode when the tape is inserted.

Picture Menu Operation



1 PICTURE MENU

By pushing the "PICTURE MENU" Button, you can sequentially select the Picture Menus as shown below.

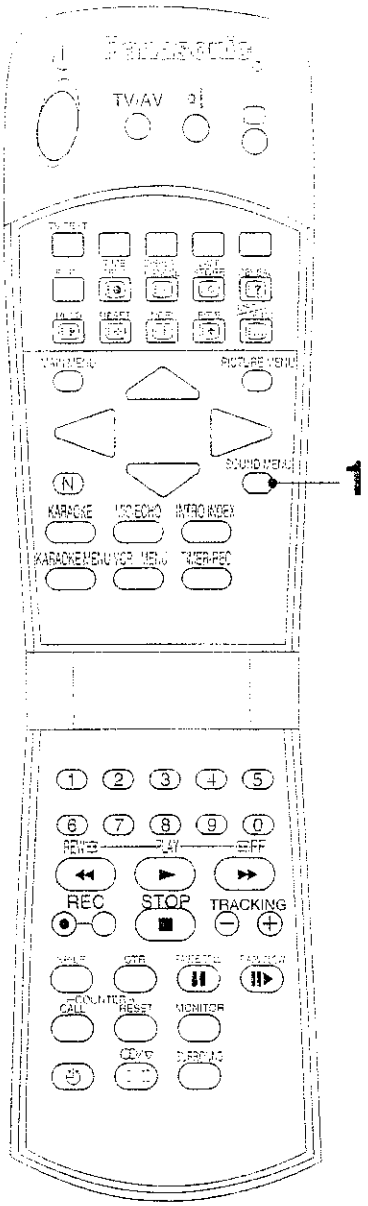
Type	On-Screen indication
29	PICTURE 1 AUTO ↕ PICTURE 2 STANDARD
25	PICTURE 1 DYNAMIC ↕ PICTURE 2 STANDARD

On-Screen	Function
AUTO	• Adjustment of skin colour to natural tint. • Correction of details fading in, for example a red rose or carnation. • Prevention of reddishness or bluishness and automatic control of colour saturation degree. • Prevention of dullness of skin colour, there by brightening it.
DYNAMIC	For watching in brighter (day light) environments. This menu selects a higher level of Contrast.
STANDARD	For watching in normal (evening lighting) environments. This menu selects the normal level of Brightness and Contrast.

Helpful Hint

You can change the level of each Function for each Picture Menu.
Please refer to page 42.

Sound Menu Operation



1

By pushing the "SOUND MENU" Button, you can sequentially select the Sound Menus as shown below.

	On-Screen indication
ALL MODELS	SOUND 1 AUTO ⇕ SOUND 2 STANDARD

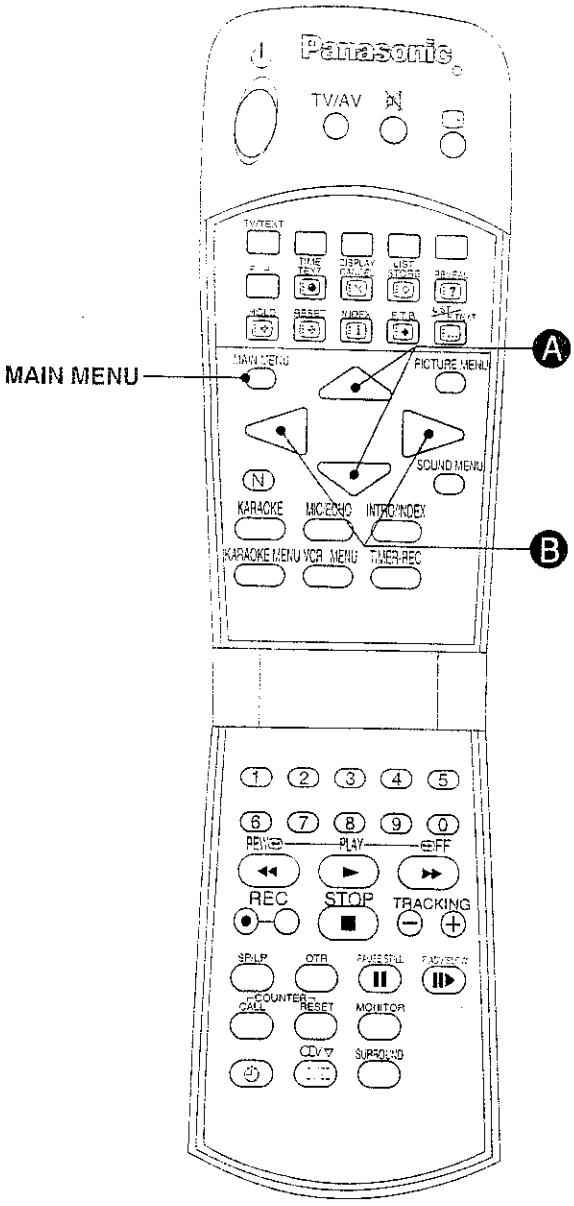
On-Screen	Function
AUTO	Sound and Music signals are altered and the best sound is automatically adjusted; sound (e.g. News and Human voice, etc.) is adjusted so as to be is easy to hear and music is adjusted to give background impression.
STANDARD	For Normal use.

Helpful Hint

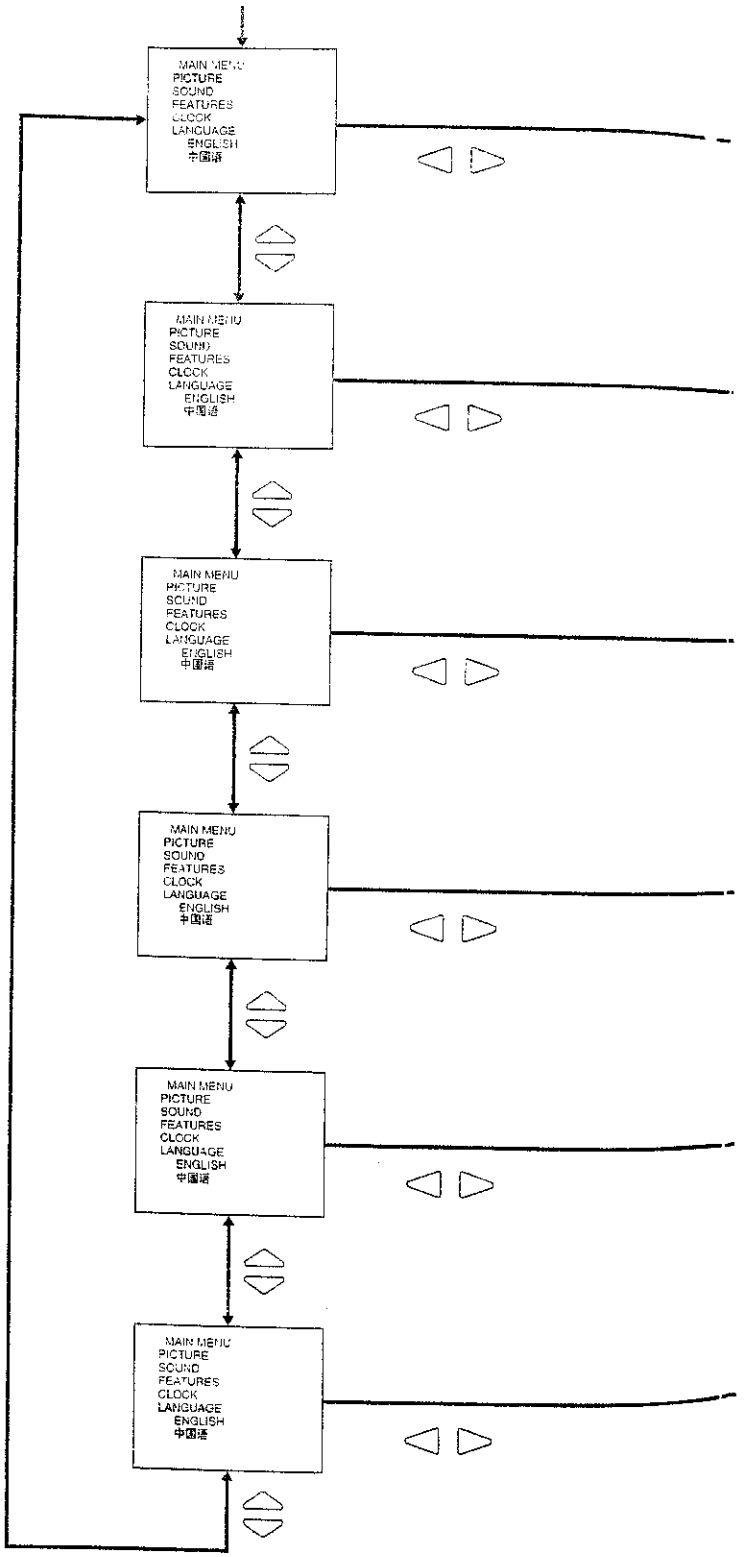
- You can change the level of each Function for each Sound Menu. Please refer to page 43.
- When the "SOUND 1 AUTO" mode is set, only balance control is available.
- When the cassette tape is playback or KARAOKE mode is switched ON, Sound Menu turns Sound Menu1 (AUTO) mode so that the sound may be easy to listen.
  If you wish to switch Sound Menu to Sound Menu2 (STANDARD), change it by using the SOUND MENU Button.

Main Menu Operation

By using the Ⓐ (⇕) and Ⓑ (◁▷) buttons, it is possible to alter presettings in the menu by pushing the "MAIN MENU" button.

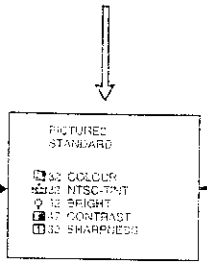


Push the "MAIN MENU" button



Note:
When the "MAIN MENU" button is pushed, the screen returns to the normal screen.

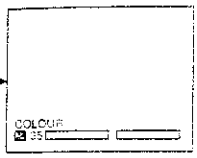
Shift of the item cursor for setting each screen is performed by using the ⊕ (⇕) button.



(Refer to page 42)

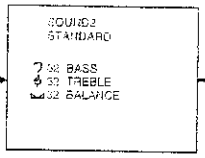
It is possible to set "PICTURE 1" and "PICTURE 2" modes by using the "PICTURE MENU" button, and to switch each mode.

◁ ▷



◁ ▷

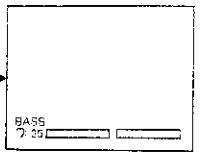
It is possible to adjust the preset value by using the Ⓑ (◁▷) button.



(Refer to page 43)

It is possible to set "SOUND 1" and "SOUND 2" modes by using the "SOUND MENU" button, and to switch each mode.

◁ ▷

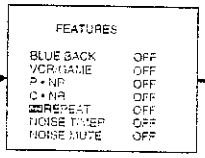


◁ ▷

It is possible to adjust the preset value by using the Ⓑ (◁▷) button.

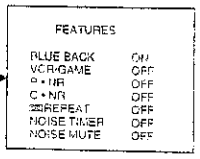
Note:

In the "SOUND 1 AUTO" mode, only BALANCE control is possible.



(Refer to page 44 • 45)

◁ ▷



It is possible to adjust the preset value by using the Ⓑ (◁▷) button.

CLOCK MENU
(Refer to page 22)

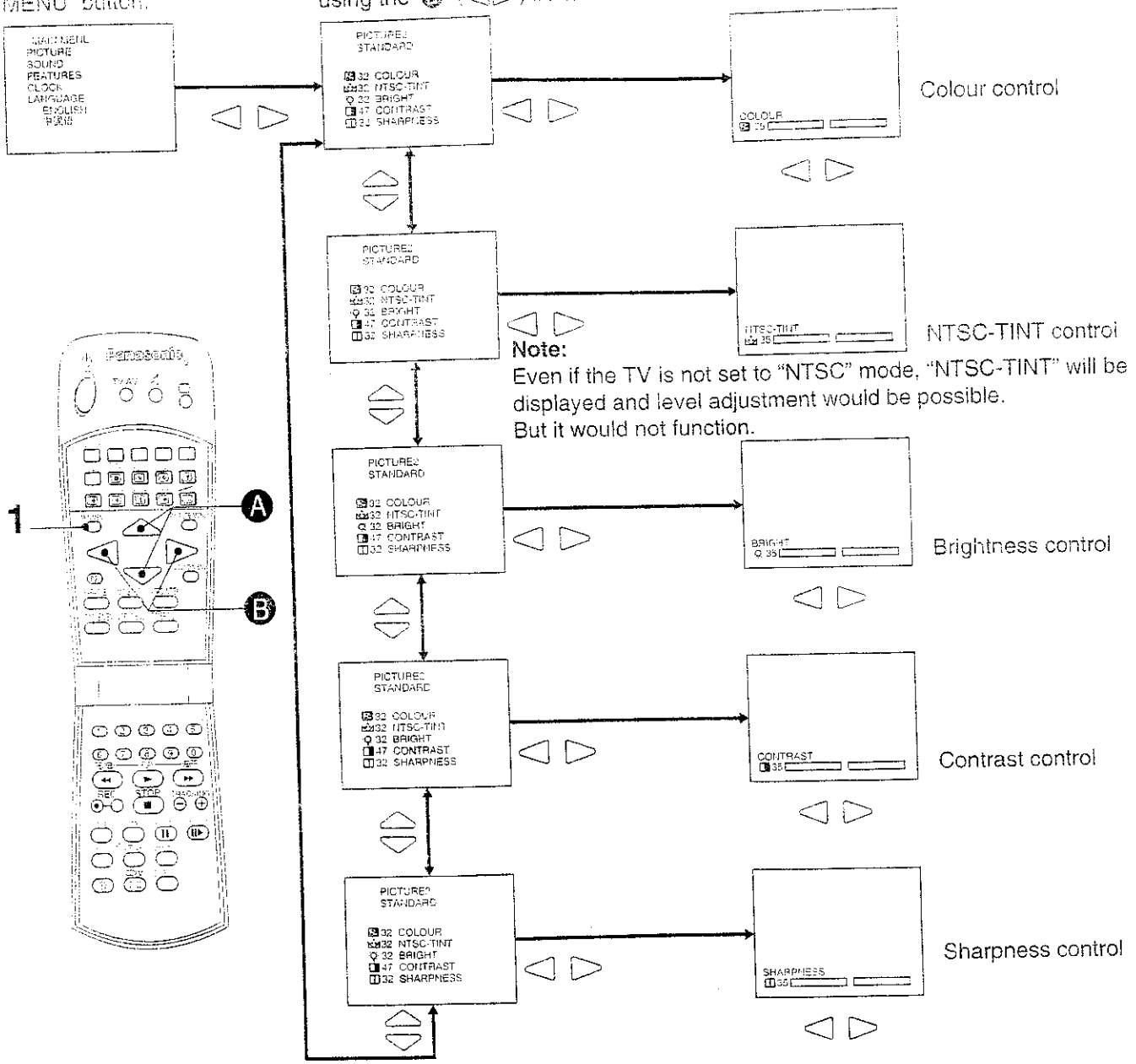
Contents of on-screen turns to display in English.
(Refer to page 21)

Contents of on-screen turns to display in Chinese.
(Refer to page 21)

Picture Menu Adjustment Operation

1. Push the "MAIN MENU" button.

2. Select the "PICTURE" by using the Ⓑ (◁▷) button.



Note:
Even if the TV is not set to "NTSC" mode, "NTSC-TINT" will be displayed and level adjustment would be possible.
But it would not function.

3. Select the desired item by using the Ⓐ (⇕) button.
When "MAIN MENU" button is pushed, the screen returns to "MAIN MENU" screen.

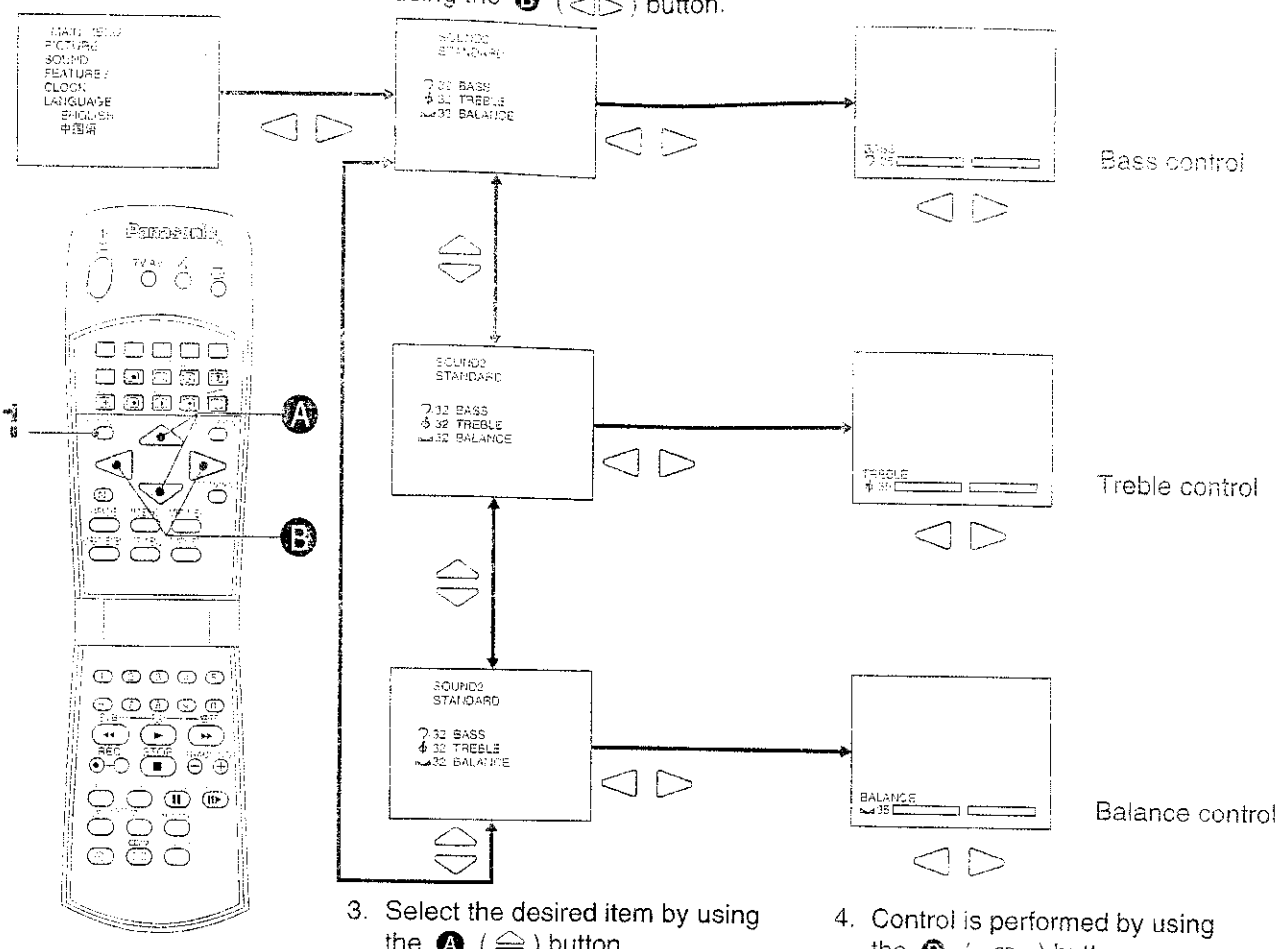
4. Control is performed by using the Ⓑ (◁▷) button.
◁ : Less
▷ : More

Helpful Hint (Ⓝ Normalisation)

By pushing the Normal "N" Button on the Remote Control while the Picture 1 or Picture 2 menu is displayed, the selected menu will be changed to the Normal Mode.
Normalisation will not occur if the menu is not displayed when the "N" Button is pushed.
The Normal mode is the factory preset condition. Returning to this original condition is called "Normalisation".

Sound Menu Adjustment Operation

1. Push the "MAIN MENU" button.
2. Select the "SOUND" by using the Ⓑ (◁▷) button.



3. Select the desired item by using the Ⓐ (⇕) button.
4. Control is performed by using the Ⓑ (◁▷) button.

Note:

- When SOUND AUTO mode is selected in Sound Menu Operation, BASS and TREBLE can not be adjusted and they are not displayed.
- The on-screen display for BALANCE is : Level 32 (center position) level bar : Red.

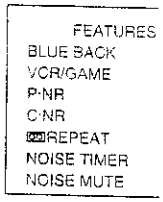
Helpful Hint (Ⓝ Normalisation)

By pushing the Normal "N" Button on the Remote Control while the Sound 1 or Sound 2 menu is displayed, the selected menu will be changed to the Normal Mode.
Normalisation will not occur if the menu is not displayed when the "N" Button is pushed.
The Normal mode is the factory preset condition. Returning to this original condition is called "Normalisation".

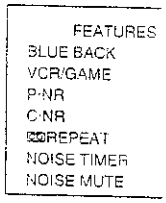
iverts to a blue background colour.
isable this Feature to continue watching very weak signals.

CR/GAME Mode
ieproduction of irregular signals, such as certain TV games and
ental video tapes, may be improved.

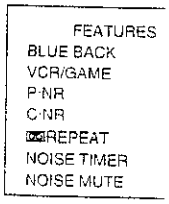
. NR Mode (Picture Noise Reduction)
The Picture Noise Reduction System is designed to reduce picture
ioise during poor quality reception conditions.



C•NR Mode (Colour Noise Reduction) (Only for Type 29)
Turn the Colour Noise Reduction Mode ON to reduce horizontal colour noise which is often produced during LD (Laser Disk) and VCR playback.

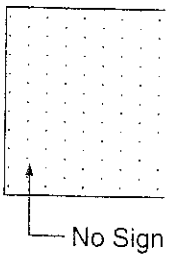


REPEAT Mode
The tape is played back repeatedly from the start to the end of the recorded content.

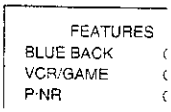


NOISE TIMER Mode
If the set is not switched off when the TV station stops broadcasting, it will automatically go to Stand-by Mode after 5 minutes.

Note:
This function will not operate when the Television set is in AV Mode or TELETEXT mode.



NOISE MUTE Mode
Turn the NOISE MUTE mode ON to Mute the Sound when no input signal is being received.



If BLUE BACK Mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW or when tracking is deviated, may cause the screen to revert to the blue background colour.Disable this Feature to view correctly.

VCR/GAME Indicator

This Feature is only effective when the RF IN Terminal is used, i.e. it does not operate for signals input from the AV terminals.

OFF
OFF
ON
OFF
OFF
OFF
OFF

When the Picture Noise Reduction System is ON, picture noise will be softened and less sharp.

When the Picture Noise Reduction System is OFF, the picture will be sharper.

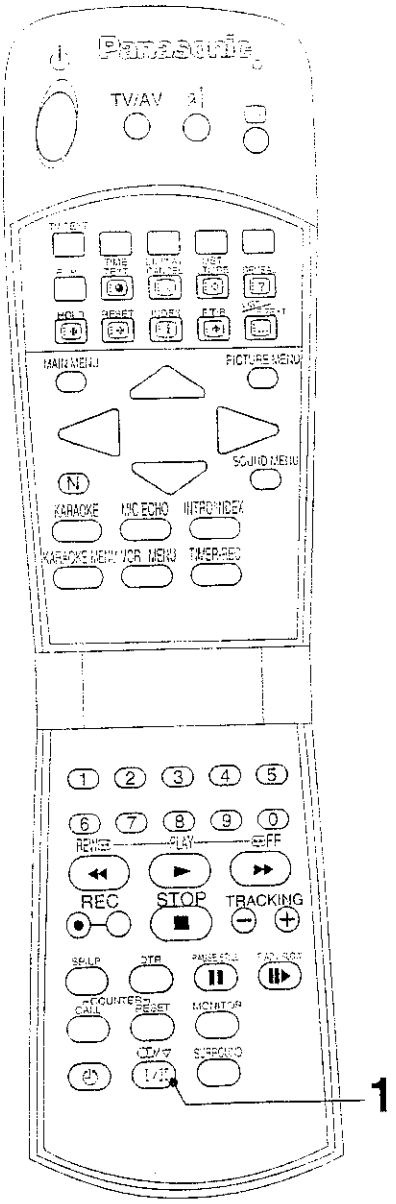
OFF
OFF
OFF
ON
OFF
OFF
OFF

FF
FF
FF
FF
N
FF
FF

To STAND-BY after 5 minutes.

FF
FF
FF

Stereo Reception



Stereo/Bilingual Sound Selection Button
Sound output modes can be selected by pushing the "Stereo/Bilingual Sound Selection" Button.

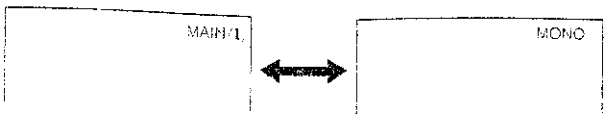
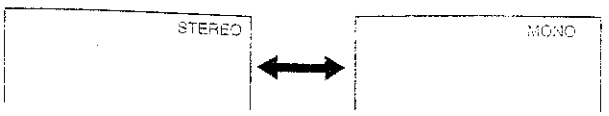
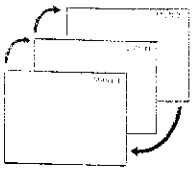
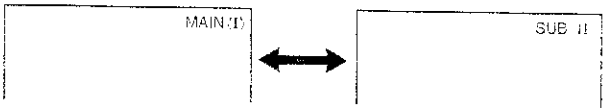
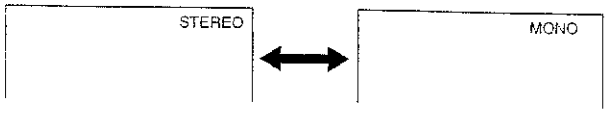
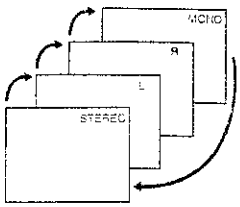
"STEREO" (if transmitted), "BILINGUAL" (if transmitted) and "MONO" modes can be selected using this button.

Model No. \ Stereo System	NICAM		A2 (German) (See Note)	AV STEREO AMPLIFIER
	B, G (5.5 MHz)	I (6.0 MHz)		
TX-29GV10X TX-29GV10P TX-25GV10X TX-25GV10P TC-29GV12G TC-25GV12G	✻	✻	✻	✻
TC-29GV10R TC-25GV10R				✻

✻: Function available

Note:
- The "A2 (German)" stereo/bilingual TV sound transmission system is used in the following countries;
  Australia, Malaysia, Thailand, Indonesia, etc.
- The "NICAM" stereo TV sound transmission system is used in the following countries;
  New Zealand, Singapore (Both 5.5 MHz, Refer to page 32) and Hong Kong (6.0 MHz, Refer to page 32).

Note:
If the stereo signal is weak or the receiving conditions are poor or if STEREO: MONO automatic switching occurs, it is recommended that you to switch to the "Mono" Mode.
When the broadcasting mode changes to "STEREO", "DUAL", or "MONO" after you have selected "MONO" mode, change over to either "STEREO" or "MAIN" Modes will be made automatically.
"DUAL" also known as "DUAL MONO" or as "BILINGUAL" mode is not currently transmitted in some countries.

Type of Stereo	Type of broadcast	On-screen indication	Remark
NICAM Digital Stereo	Regular broadcast (Standard Audio)		Normal use
	Regular + NICAM MONO I (MAIN(I))		You can select either the "MAIN(I)" or "MONO" audio signal.
	NICAM STEREO		You can select either the "STEREO" or "MONO" mode.
	NICAM DUAL MONO (MAIN(I)/SUB(II))		You can select either the "MAIN(I), SUB(II) or MONO"
A2 (German) Stereo	Regular broadcast (Standard Audio)		Normal use
	BILINGUAL or DUAL MODE: MAIN(I)/SUB(II)		You can select either the "MAIN"(I) OR "SUB(II)" audio signal.
	STEREO		You can select either the "STEREO" or "MONO" mode.
AV STEREO AMPLIFIER	Input sound of AV1, AV2		The right and left sounds are outputted after being amplified.
	Hi-Fi tape playback		You can switch the right and left sounds of the tape.

Note:

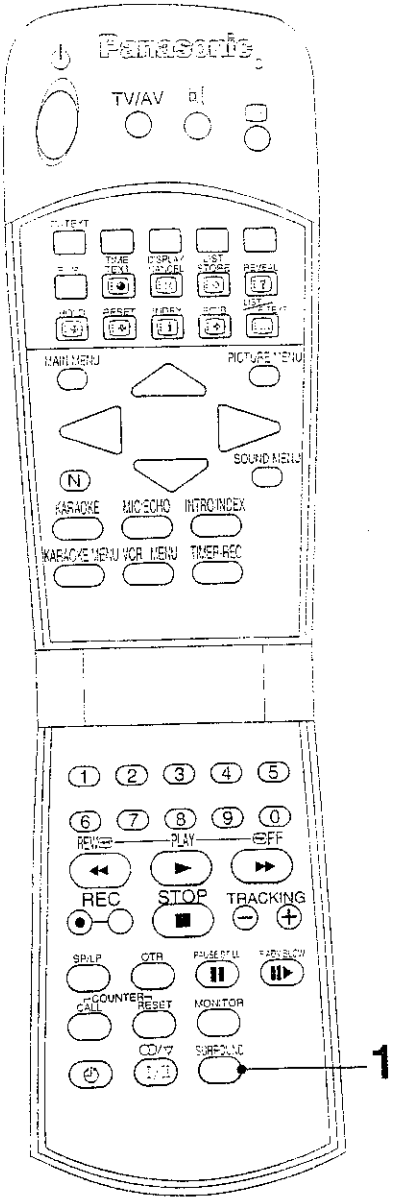
(1) When the power is switched ON, the mode is automatically preset at either "MAIN <I> or STEREO", depending on the current transmission.

(2) Even when the contents of the receiving signal undergo changes, selection mode is kept intact.

(3) When the receiving conditions deteriorate, listening will be easier if the mode is set to the "MONO" position, using the Stereo/Bilingual Sound selection button as shown on page 46.

(4) In case of recording of NICAM and A2 programmes, all sounds are recorded. Select the desired sound mode by using this button.

Surround Operation



1

Surround Button

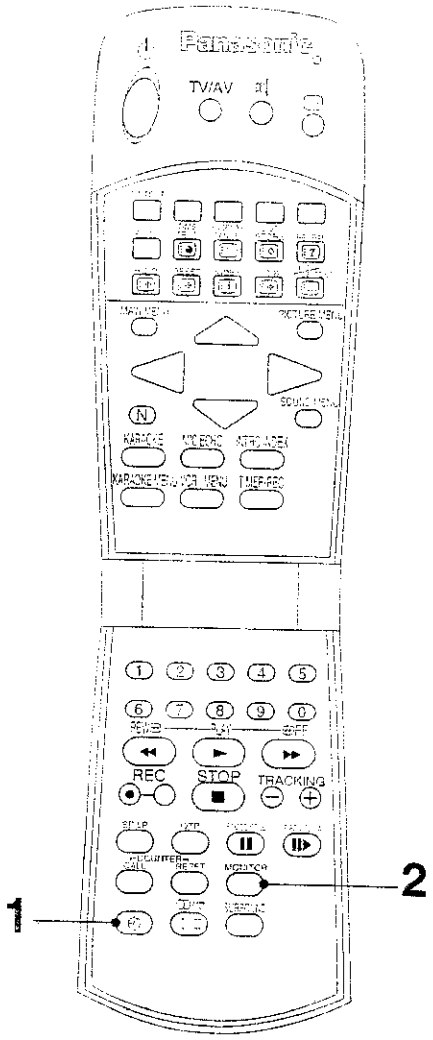
The benefits of surround sound are enormous. With additional speakers you can be completely enveloped in sound, just as if you were at a concert hall or cinema.

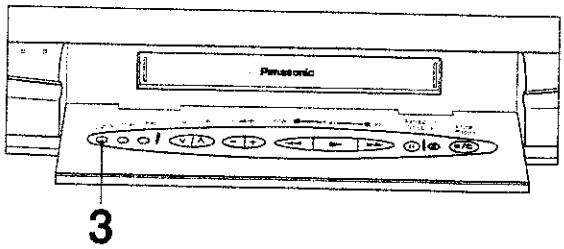
The surround effect does operate without external surround speakers, but is enhanced when they are connected. Such near surround speakers should not be sited in direct proximity to the listeners.

On-Screen display during surround mode.

	Type of broadcast	On-screen display	Remark
TV Mode	• MONO (Including STEREO switched to MONO by you) and BILINGUAL	MONO SURROUND ↕ SURROUND OFF	You can select either "MONO SURROUND" or "SURROUND OFF".
TV Mode	• STEREO	STEREO SURROUND ↕ SURROUND OFF	You can select either "STEREO SURROUND" or "SURROUND OFF".
AV Mode	• Select the AV mode (AV1, AV2 and Video tape Playback)	STEREO SURROUND → MONO SURROUND → SURROUND OFF →	You can select either of the three surround modes "STEREO SURROUND/MONO SURROUND/ SURROUND OFF".

Note: If the stereo signal is poor or the receiving conditions are not optimum or if STEREO: MONO automatic switching occurs, it is recommended that "STEREO" switch to MONO (Refer to page 46) be used. If problems or unusual sudden effects are encountered in any of the surround modes, it is recommended that "SURROUND OFF" be selected.



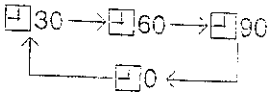


1

Off Timer Button

The TV set may be preset to switch to stand-by after a fixed period.

By pushing "OFF-Timer" Button, you can select the preset time; either "30", "60" or "90" minutes.



After setting the Off-Timer, push the Recall button (refer section 9 above), to confirm the remaining time before the set will switch itself to Stand-By.

Set Off Timer to "0" to cancel.

Note:

When Off Timer is set, the remaining time is displayed at the right bottom of the screen 3 min. before the set switches itself to stand-by.

2

RECORD MONITOR button

This button is used to confirm the recording condition when you are viewing a programme on a different channel or video from an AV input, while recording.

3

Display Button

(This button is not used normally.)

By pushing the Display button various demonstrations and on-screen displays will appear.

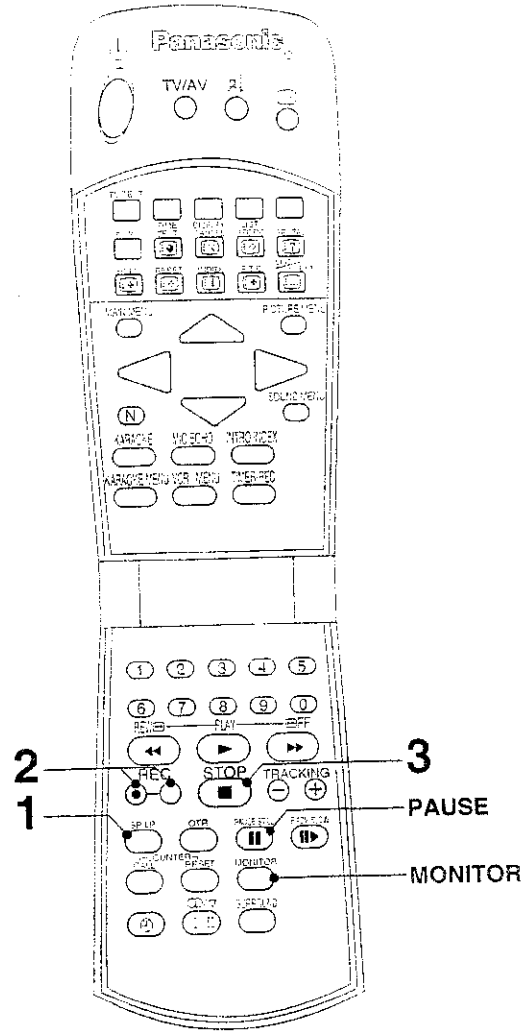
Push the Display button a second time to half the display/demonstration mode, and return the set to the nomal viewing condition.

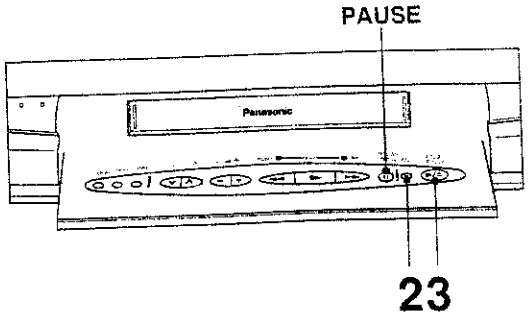
Note:

When this button is pushed, the Picture and Sound Menus change to Picture 1 (AUTO) and Sound 1 (AUTO) for Type 29 models, Picture 1 (DYNAMIC) and Sound 1 (AUTO) for Type 25 models.

Recording

When you want to record a programme (TV, AV input) that you are currently viewing, pushing the "REC" buttons, after inserting the tape and setting SP/LP mode.





1

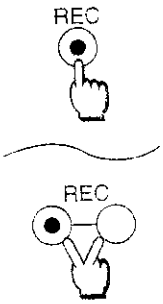
SP/LP button

Set a tape speed.

SP ---Standard mode

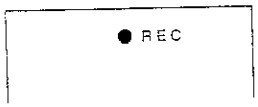
LP ----
- In PAL and SECAM system modes, double the recording time of "SP" mode is possible.
- In NTSC system mode, triple the "SP" mode recording time is possible.

2



REC (Record) Buttons

Recording is started by pushing the REC (Record) button at the same time.



Note:

- When recording starts, VCR Indicator lights up. (Red)

After recording starts, you can view another programme or stop recording as follows:

RECORD MONITOR Button

If you push the "RECORD MONITOR" Button when viewing a different programme from the one you are recording, the programme being recorded will continue to be recorded.

3

Recording may be stopped by pushing the STOP button.

Helpful Hint

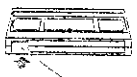
- SP/LP modes

  SP (STANDARD PLAY) ----- When recording a programme which you want to preserve, or when recording a programme for editing in the future, etc. (Optimum picture and tone quality).

  LP (LONG PLAY) ---------- When recording a long duration programme on a tape, etc. (Picture and tone quality are in inferior to SP mode)

- To avoid inadvertent erasure of an important recorded tape, break the erasure prevention tab of the cassette tape. By doing, recording becomes impossible and erroneous erasure is prevented.

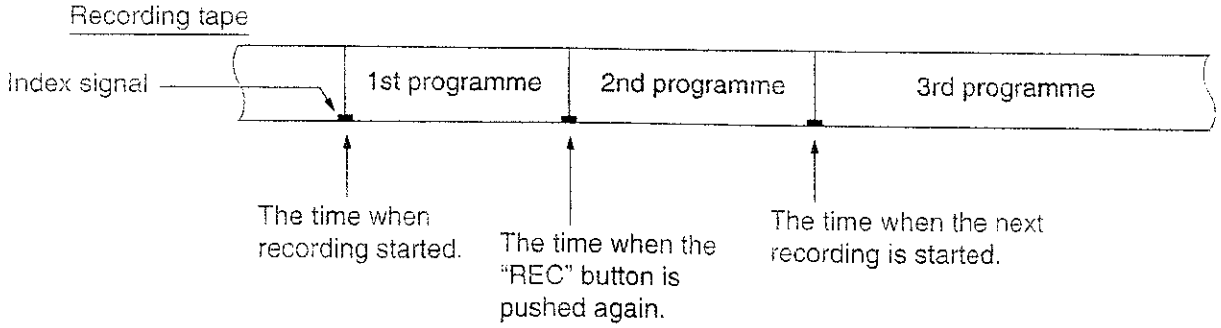
  Use cassette tape (two layers preferably) a cross the broken erasure prevention tab, to make re-recording possible again.



- During recording, if another programme is to be recorded, push the "PAUSE" button, switch to another channel if desired, push the "PAUSE" button again, and recording will re-start.
  (The VCR Indicator (Red) blinks during pause)

- Recording in "S-VHS" format is not possible with this unit.

- When the "REC" button is pushed at the starting of recording or during recording, an index signal is recorded. This index signal enables indexing of recorded programmes, for use with indexing function of the "KARAOKE" mode.


Recording tape
Index signal
1st programme
2nd programme
3rd programme
The time when recording started.
The time when the "REC" button is pushed again.
The time when the next recording is started.

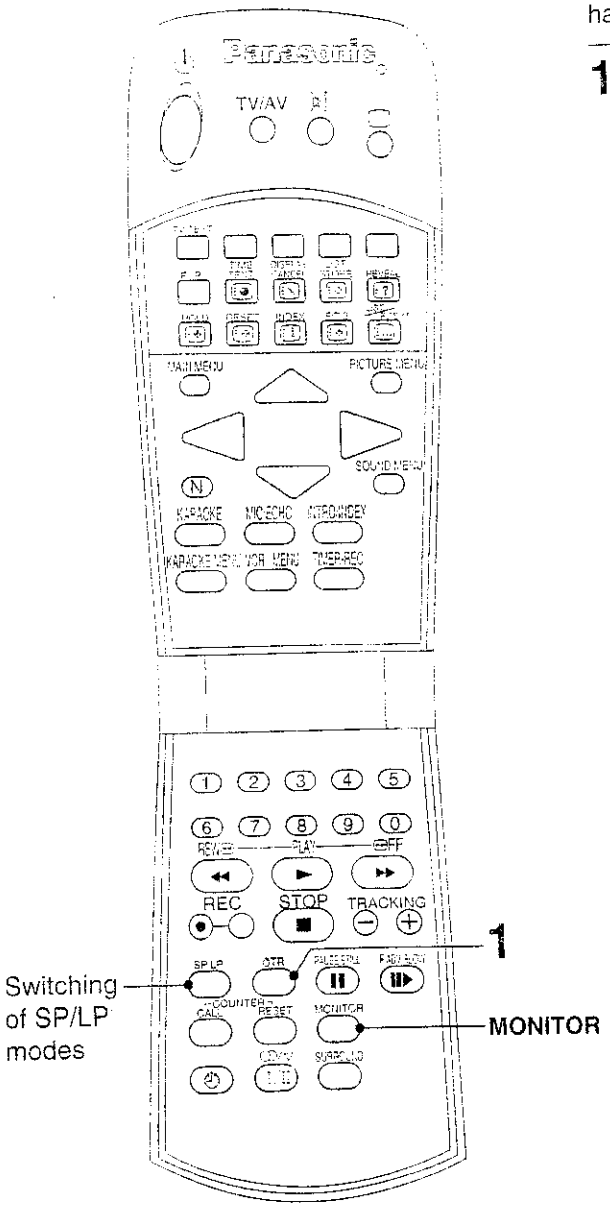
Note:
To prevent mis-operation, leave minimum of approx. 5 min of tape between each recorded index signal.

Copyright

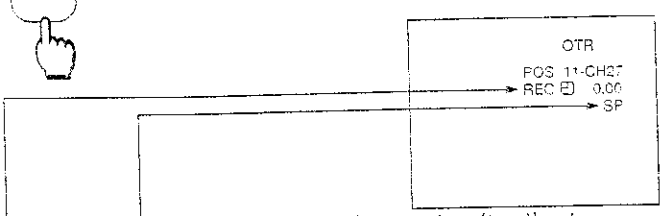
You may record TV broadcasts and musical programmes for your personal entertainment only.
You are not permitted to use them for any other purpose without the consent of the copyright holder.

One-Touch Timer Recording (O.T.R.)

You can record a programme that you are viewing, a single using just button.
The One Touch Timer Recording button will allow you to set the recording time, start recording, and to stop it after the preset time has passed.



1 Push the "OTR" button.



Push the SP/LP button to alter the tape speed mode.
SP ---Standard mode
LP ----Twofold (PAL/SECAM)
Threefold (NTSC)

It is possible to extend the recording time by 15 min. at every consecutive push the "OTR" button.

- It is possible to set the recording time up to 3 hours and up to the tape's end.
- When the recording time is set to 📼 END (tape end), the remaining time in not indicated.
- Push the OTR button to start recording immediately.
- When recording start, VCR Indicator light up. (Red)

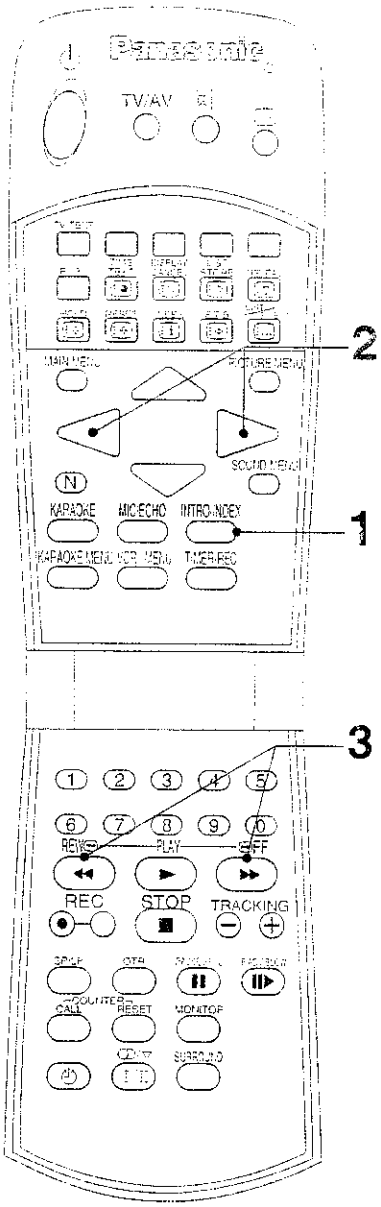
To stop recording;
Push the "OTR" button until the display "REC 0:00" appears.
Recording then stops after 5 sec.

Note:
- The " 📼 " mark is displayed when tape without erasure prevention tab is inserted or there is no recording tape.

Helpful Hint

- It is possible to view another programme during One-Touch Timer Recording mode.
- Push the "MONITOR" button to return to the programme being recorded.
- Recording is continued even if the TV set is switched to "STANDBY".
- When you want to change the programme being recorded, stop the recording, change the programme and then start the recording again. You can not use the PAUSE button in the same manner (to make such a change) as for normal recording (page 51).

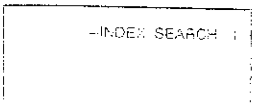
Playback of Indexed programme



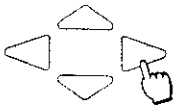
It is possible to index programmes recorded on this unit, to make locating specific programme start positions faster.
(The unit searches for a pre-recorded index signal and the corresponding programme is played back automatically.)
Insert a recorded cassette tape with index signals.

1

Push the "INTRO/INDEX" button.



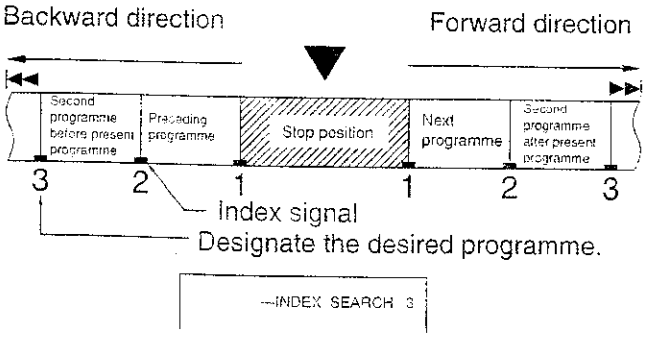
Note:
When display of INTRO SEARCH appears, turn the KARAOKE mode OFF and push the INTRO/INDEX button.

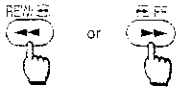
2 

The diagram below shows a section of tape, with the VCR stopped between two index signals.

Use the Position Left "<" and Right ">" buttons to designate how many index signals backward or forward the unit should count off before stopping.

Note from the diagram that to designate the start of a selected programme 2 programme back, the unit must count three index signals, so in such a case you would set "3" not "2".
Setting range: 1~30



3 

By using either the "FF" or "REW" button, designate whether the programme which you want to index is in the backward or forward direction. The unit will then go into whichever mode you are selected (Fast Forward or Rewind) and locate the appropriate index signal.

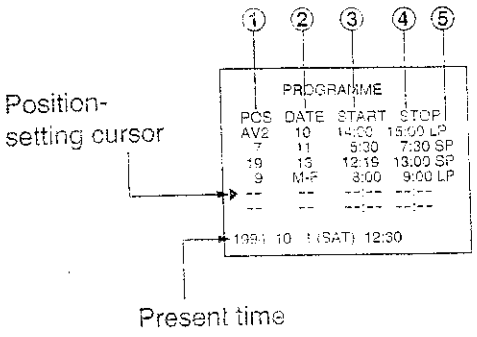
When a index signal is detected, the numbers displayed will be reduced.

When the specified index signal is detected, playback of the corresponding programme starts automatically.

Programme Timer Recording

6-programme Timer Recording is possible, and mode easy by an on-screen menu.

VCR MENU screen



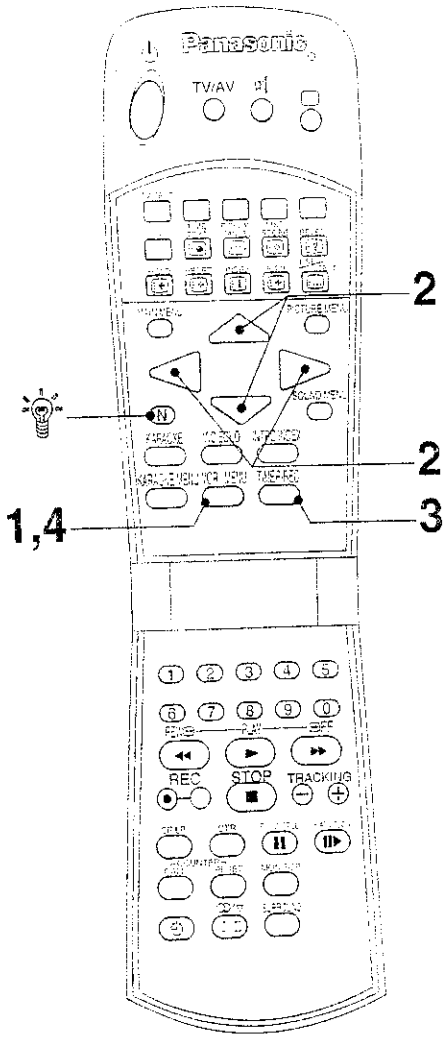
1 **POS** (Position)
Preset the programme number for the programme to be recorded.
Preset either AV 1 or AV 2 when you want to record the programme from AV 1 or AV 2 input.
(Programme numbers previously set to SKIP-ON (Page 31) are not displayed.)

2 **DATE**
Preset the date when the programme will be broadcast.
The date can be preset as follows:
- Presetting for one month in advance (from the present date)
- Presetting of the same time everyday (DAY)
- Presetting of the same time from Monday to Saturday (M - S)
- Presetting of the same time from Monday to Friday (M - F)
- Presetting of the same time of the same day of every week (SUN, MON, TUE, WED, THU, FRI, SAT)

3 **START**
Preset the hour and minute when recording is to start.

4 **STOP**
Preset the hour and minute when recording is to finish.

5 **Preset the desired SP/LP mode.**
SP ----------Standard mode
LP----------Twofold recording time (PAL/SECAM)
Threefold recording time (NTSC)



How to use the arrow Buttons.

1 VCR MENU
- Display the "VCR MENU" screen.

2
- Shift the position setting cursor up and down.
- Set each item from Step ① to Step ④ as listed above.

- The cursor shifts right and left.

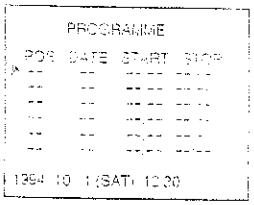
3 TIMER-REC
- When a tape is inserted after Programme Timer Recording mode is set, the Timer Recording Indicator lights up.

Presetting Method

1 VCR MENU

Display the "VCR MENU" screen by pushing the "VCR MENU" button.

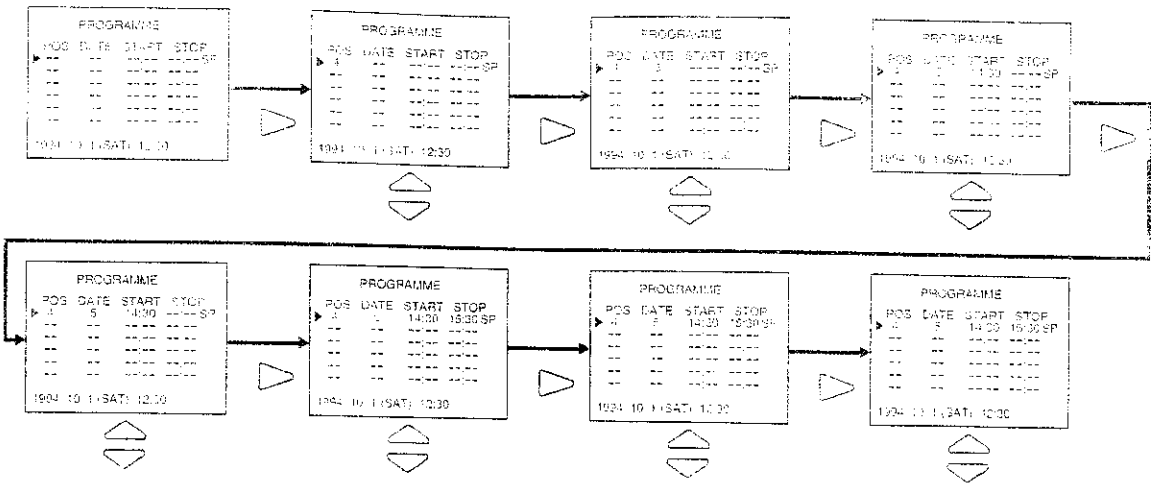
Note:
When the Timer Setting mode is not set, the Timer Setting screen is displayed initially. (Refer to page 22)



2

Set the Timer Recording mode by shifting the cursor.

For example, when you want to record programme No. 4 on Oct., 5, from 14:30 to 15:30 in the SP mode.



3 TIMER REC

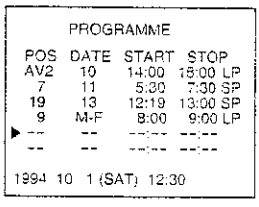
Insert a tape and push the "TIMER REC" button.
The set switches itself to stand-by for Timer Recording. The position-setting cursor disappears and the "TIMER REC" Indicator lights up.

Note:
When the tape without erasure prevention tab is inserted or there is no recording tape, the TIMER-REC indicator blinks. Insert the tape with erasure prevention tap.

4 VCR MENU

You can use the VCR as usual by pushing the "VCR MENU" button . Even if the unit is in STAND BY mode, recording starts from approx. 20 sec. prior to the arrival of preset time.

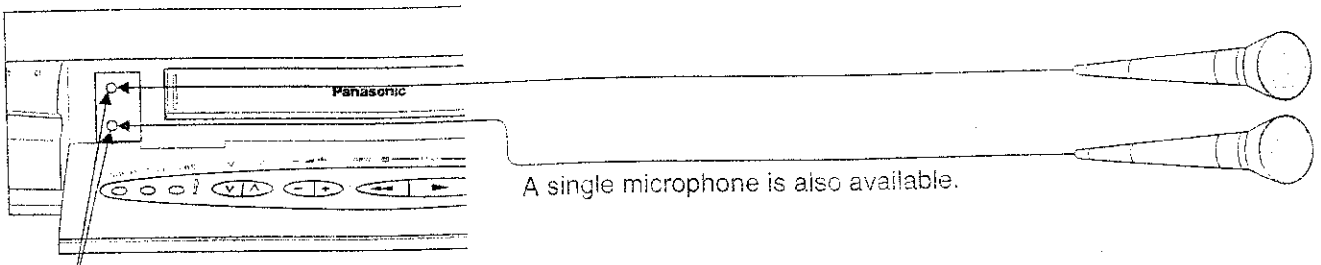
Helpful Hint



- When you want to set another programme, shift the cursor to a line not yet set, and set it as described above.
- To erase contents of the Timer Recording mode, shift the cursor to the line to be erased and push the (N) button.
- After switching the TIMER REC Indicator off by pushing the "TIMER REC" button, you can use the VCR as usual, except during the time for which Timer Recording mode is set. Insert a tape before recording starts, and push the "TIMER REC" button.
- When a preset time has passed, the contents of the corresponding preset line is erased.
- When you want to stop recording during Timer Recording, push the "TIMER REC" button.
- When the TIMER REC Indicator is (light) on, Timer Recording is not performed.

Preparation

1 Connecting Microphone

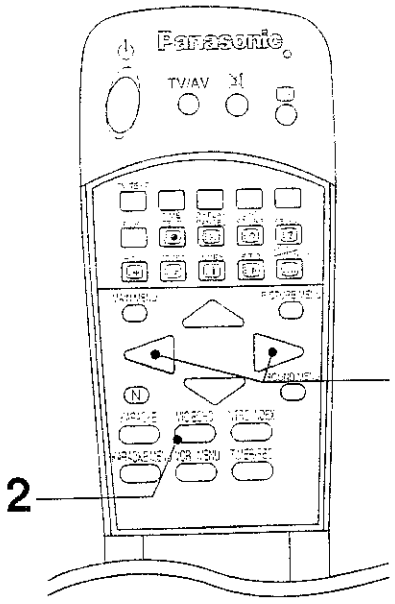


A single microphone is also available.

Microphone
Input Socket

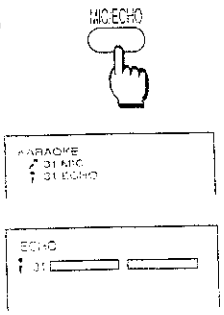
Note:

- The microphone does not produce only sound unless the "KARAOKE" button is pushed and the mode is set to "KARAOKE ON".



Microphone volume and echo adjusting button

2



Push the "ECHO/MIC" button and adjust the levels of MIC and ECHO.

Shift the cursor by using the "ECHO/MIC" button.

Adjust the levels of MIC and ECHO by using the Position Left or Right buttons.
(The available range between 0 and 63)

Note:
If the volume is turned to high, the sound may be distorted. If howling occurs (a high pitched "peee" sound), pull the microphone away from the TV, or reduce the TV or microphone volume.

3

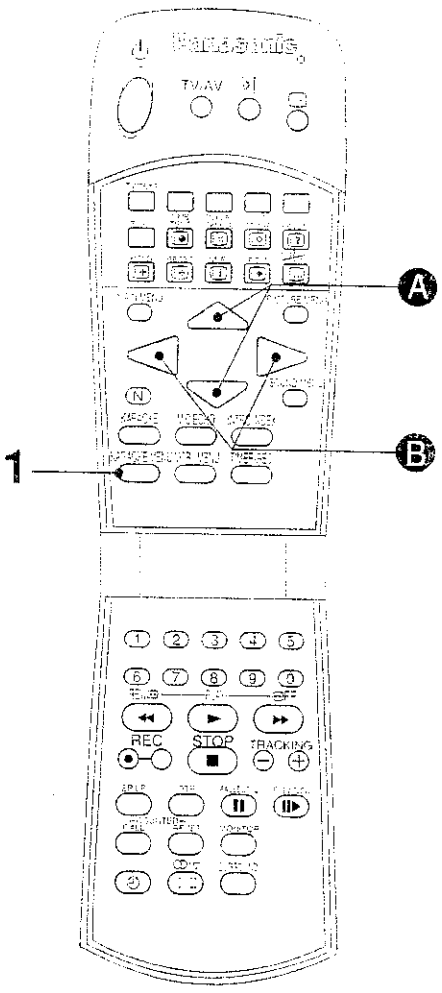
Insert a tape containing the tune that you want to sing along to.

How to enjoy KARAOKE by using the KARAOKE menu

The KARAOKE menu makes it easier to use and enjoy KARAOKE.

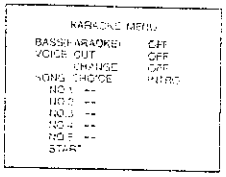
- When you want to access to the beginning of music, you can set it at from No.1 to No.5 in one tape. Alteration on the way is also possible. After a piece of music is over, indexing for next tune is performed automatically. Presetting for the next tune between music pieces or during sing along, is also possible.
- Using "voice multiplex" pre-recorded tapes, or stereo recorded tape, it is possible to cut out the voice of the singer.
- You can adjust the emphasis of bass sounds to improve the sound quality.
- The KARAOKE menu is easy to operate.
  - Ⓐ (⇳) buttons ------ shifts the cursor up and down.
  - Ⓑ (◁▷) buttons ---- preset various functions, including switching KARAOKE ON/OFF, index search, tune setting and start of KARAOKE.

Operation method



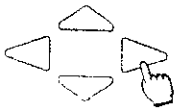
1

Insert a tape containing a tune that you want to sing along with, and push the "KARAOKE MENU" button.



Note:
When "KARAOKE OFF" is displayed, push the "KARAOKE" button to put the set into the "KARAOKE ON" mode, and then push the KARAOKE menu button.

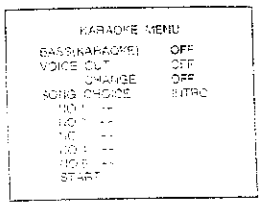
2

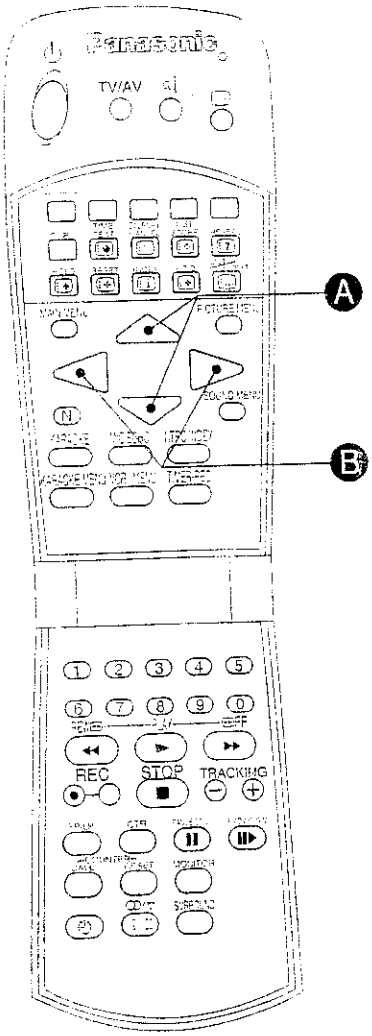


"BASS (KARAOKE)"
ON/OFF settings are performed using the Ⓑ (◁▷) buttons.

ON mode ------- Emphasised bass
OFF mode ------ Normal bass

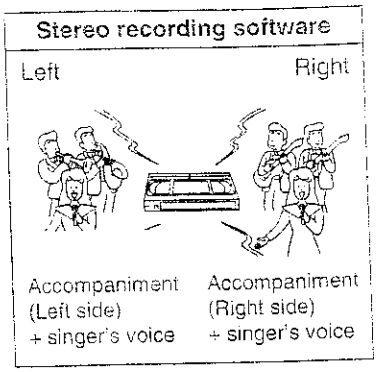
Shift the cursor by using the Ⓐ (⇳) buttons.





3 ON/OFF settings of "VOICE CUT/CHANGE" are performed by using the Ⓑ (◁▷) buttons.
Use the "OFF" mode normally.

What is "VOICE CUT ON"?
(This mode is useful for stereo recorded tapes.)

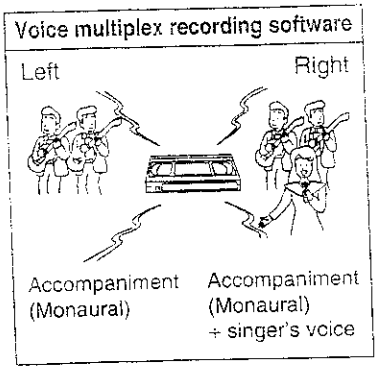


This mode lowers singer's Voice of KARAOKE and enables you to sing a song to the accompaniment of KARAOKE on your own voice at all times.

Note:

- This function does not work with "voice multiplex" recorded and mono recorded tapes.
- Depending on the recorded material, this function may have little effect.

What is " VOICE CHANGE ON"?
(This mode is useful for "voice multiplex" pre-recorded tapes.)



This mode absorbs singer's voice of KARAOKE and enables you to sing a song to the accompaniment of KARAOKE on your own voice, only while you are singing a song to siger's voice of KARAOKE.

Note:

- This function does not work with stereo and mono recorded tapes.
- Depending on the recorded material, this function may have little effect.

(Shift the cursor by using the Ⓐ (⇕) buttons.)

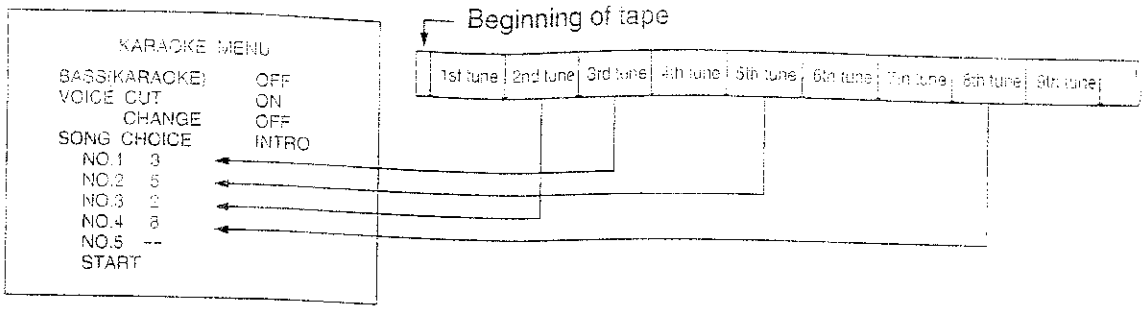
---

4 Presetting of SONG CHOICE (How to index music) is performed using the Ⓑ (◁▷) buttons.

There are two types of KARAOKE music tapes; some tapes contain a tape portion with no sound between music pieces and some tapes contain special index signals. Thus, it is necessary to change the index method according to which of the two formats the particular tape uses.).

INTRO ------- There are "no sound" portions between music pieces. (More than 6 sec. duration)
INDEX ------- There are index signals between music pieces.

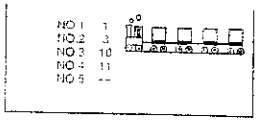
5 Preset the order of tunes which you want to sing along with in the SONG CHOICE numbers 1 to 5. Shift the cursor up and down by using the Ⓐ (⇳) buttons and preset the order of tunes using the Ⓑ (◁▷) buttons. (Max. 30 tunes)



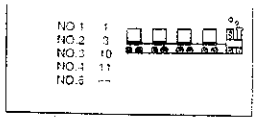
6 START
Shift the cursor to the "START" position by using the Ⓐ (⇳) buttons. and set the "KARAOKE" mode to START using the Ⓑ (◁▷) buttons.

- In the "KARAOKE" mode, the tape is rewound completely and preset tunes are played back in the order set in Step 5.

Display during rewinding



Display during fast forward

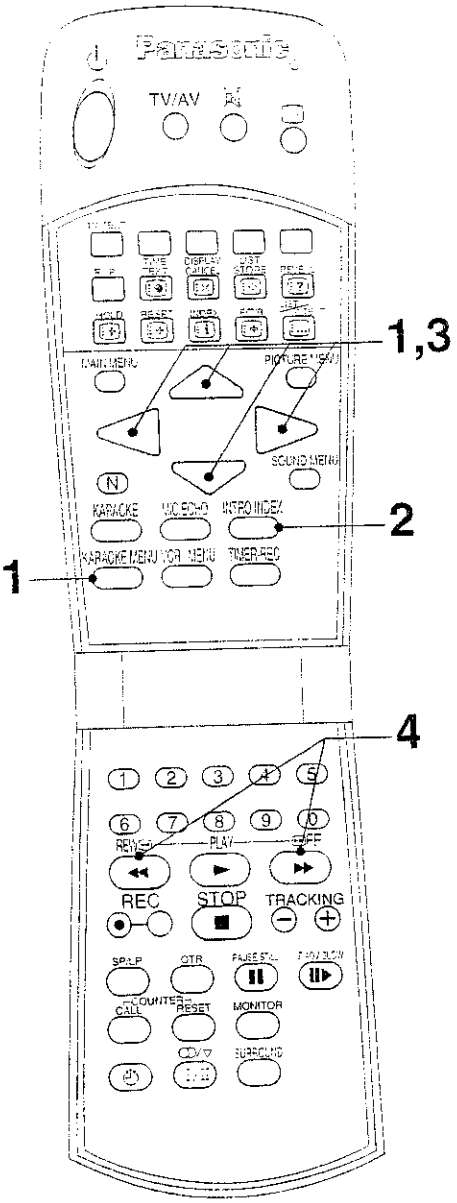


Helpful Hint

- In the KARAOKE MENU screen, changes of presettings and additional settings, (except for tune No. 1), are possible even during rewinding, fast forward or playback.
- When the "STOP" button is pushed once during playback, the unit will automatically search for the next preset tune.
- When the "STOP" button is pushed during either rewinding or fast forward, rewinding and fast forward stop.
- Selections chosen may be deleted with the N button.

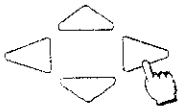
Indexing of tunes using INTRO/INDEX search mode

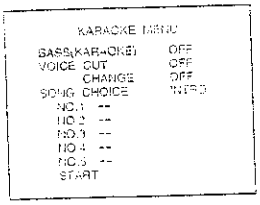
This is convenient method to quickly search for a tune on a tape which you want to sing along with.
Insert a recorded cassette tape.



1

Push the KARAOKE MENU button to set SONG CHOICE corresponding to the recording method of the tape.



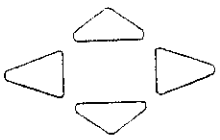


INTRO ------- When there are "no sound" portions between tunes. (More than 6 sec. duration)
This is effective only when "KARAOKE ON" mode is set.

INDEX ------- When there are index signals between tunes.

2

Push the "INTRO/INDEX" Button.

3 

By using the Position Left or Right buttons, preset the tune allocation in the order in which you want the tunes played.
Setting range: 1~30

4

or

Preset the direction, in which the tune that you want to sing along with stands, by using the REW or FF buttons.

- When this button is pushed within 20 sec. from the beginning of a tune, playback reverts to the previous tune.

Recording of Index Signals

Index signals will be recorded automatically in the following cases:

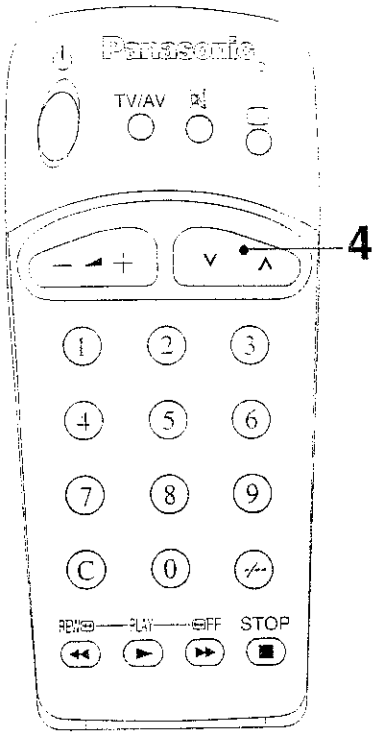
- At the tape position at which the Record Button is pushed to start recording.
- At the tape position at which a Timer Recording is started.

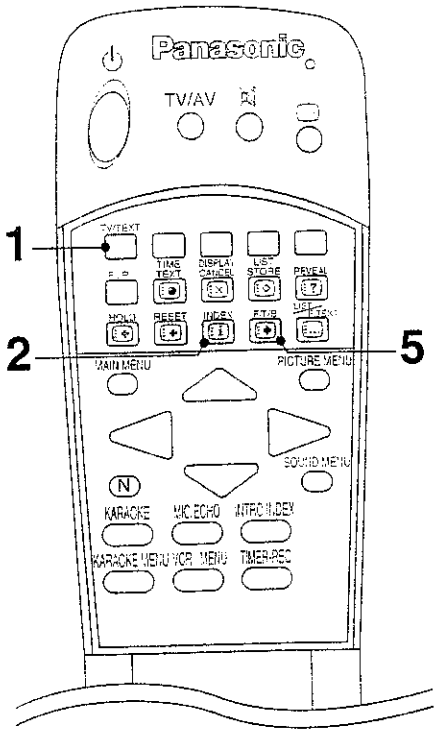
In the following cases, the Intro Search function may not work correctly:

- When using a tape recorded in the LP mode. (It is recommended that you use tapes recorded in the SP mode.)
- When some loud sounds are recorded between programmes or Karaoke tracks or at the beginning of programmes.
- When the search for a Programme or Karaoke track is started from close to the beginning of the tape or close to an interval between programmes.
- When a Programme or Karaoke track is very short (less than 40 seconds).
- When using tapes with poor quality, for example tapes that have been dubbed repeatedly.
- When there are passages with very weak sound or passages without any sound in a Programme or Karaoke track.
- When the intervals between Programmes or Karaoke tracks are shorter than 6 seconds.
- When using tapes recorded with the Fade-in or Fade-out recording function.
- When some narration has been recorded at the beginning of the Programmes or Karaoke tracks.
- When using a tape recorded in the NTSC system.

Basic Operation

A black may bar briefly appear to indicate Teletext availability, when a channel with Teletext is selected. If the station broadcasting Teletext has its own title transmitted in the Teletext signal for inclusion in this position, then this title will appear inside the black bar.



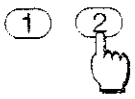


1

TV/TEXT Selection
Push to select "TEXT" Mode.
To return to the TV Mode, push the button again.

2

INDEX
Push this button, in "F.TEXT" Mode, to return to the Index Page.
Depending on the way information is transmitted by each TV channel, this "INDEX" Button may need to be pushed more than once to return to the Main Index Page.

3 

Numerical Buttons
To select the required Page of TELETEXT, use these buttons "0" to "9".

Note:
All Page Numbers consist of 3 digits, the lowest being 100 and the highest being 899, and the first being between 1 and 8 inclusive.

4

Page Number Up/Down
Push the Page Number Up "∧" Button to step up to the next higher TELETEXT Page. Push the Page Number Down "∨" Button to step down to the next lower TELETEXT Page.

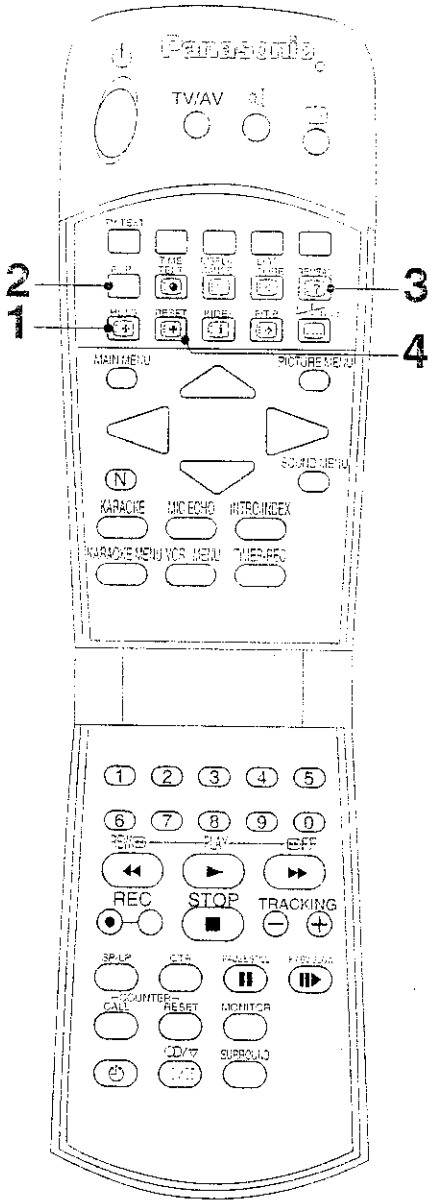
5

Full/Top/Bottom Button
This function is used when characters on the TV screen are hard to read.
Pushing the 1st time expands the upper half of the screen only.
Pushing the 2nd time expands the lower half of the screen only.
Pushing the 3rd time returns the display to its original size.

* "F.TEXT" mode is not transmitted in some countries.

Useful Functions for Teletext

These functions can be used in either LIST mode or F.TEXTmode.



1

Hold

The selected Teletext Page may consist of a number of "Sub-Pages".
These sub-pages are rotated automatically, unless the "Hold" function has been activated. (Refer also to page 64)
Push the "Hold" button, and the Sub-Page will stay on the screen.
The "Hold" message symbol will be displayed at the top left corner of the screen.
To cancel the "Hold", push this button again.

2

Favourite Page Selection (F. P.)

This feature will store a favourite Page in the TV memory which can then be instantly recalled. To store such a Page the TV must be in LIST Mode and the Programme Number must be from 1 to 10. (1 to 25 only for TX-29/25GV10P)
Push the Light Blue button, choose your Page Number and then push the LIST STORE button.
The Page Number is now stored. Push the F.P. button to recall this Page even in TV Mode.

3

Reveal

Some Pages contain concealed information. e.g. the solution to a riddle or a puzzle.
To reveal this information, push the "REVEAL" Button.
To conceal this information again, push the "REVEAL" Button again.

4

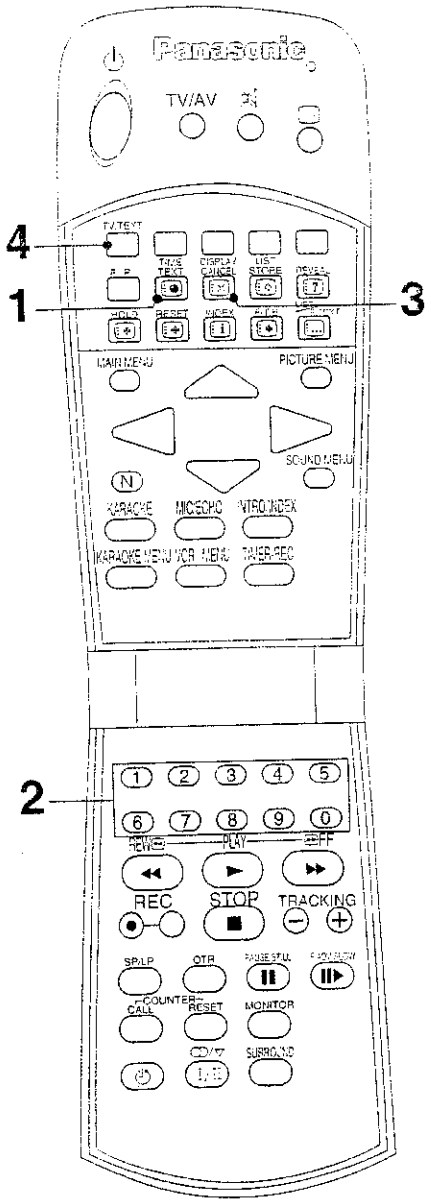
Reset

Pushing "Reset" in "F.TEXT" Mode will reset the present Page to Page 100 and the associated colour subject.
Pushing "Reset" in "LIST" Mode will reset the present Page to the "RED" colour coded Page number.

"F.TEXT" (Fast Text) and "LIST" mode are not transmitted in some countries.

Text Sub Page Access

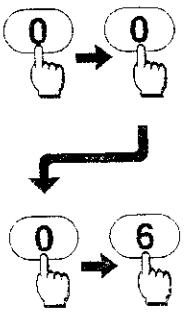
When a Teletext Page exceeds more than one screen of information, it may take some time for the automatic changing of the Sub-Pages to reach the one you wish to view.
It is possible to enter your required Sub-Page and then continue watching the normal programme until your selected Sub-Page is received.



1

(Teletext must be selected first.)
The required Teletext Page must be selected, i. e. the Page in which Sub-Pages exist.

Push the "TIME TEXT" Button.

2 

Enter the desired Sub-Page number which the "T****" prompt is on screen.

Note:
Sub-Page selection must be inserted as a 4 Digit Number.

e.g. for Sub-Page 6 the numbers "0-0-0-6" must be entered.

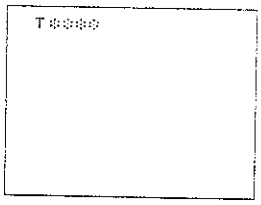
3

Push the "DISPLAY CANCEL" Button to return to the normal TV programme.

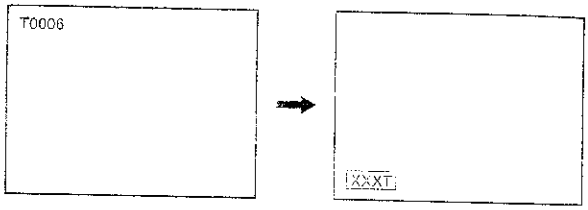
4

Push the "TV/TEXT" Button to display the received Sub-Page.
To clear the Sub-Page, enter a new Page number or push the "RESET" Button.

Note:
It is not possible to select another Programme Number during Sub-Page operation, without cancelling the Sub-Page search operation.



At that time, "T****" will be displayed at the top left of the screen. This is the TIME TEXT prompt.

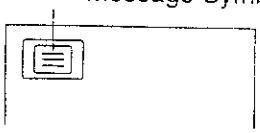


In "LIST" mode the letter "T" will appear in the current coloured box at the bottom of the screen.
This is an indication that the Sub-Page number has been set.

Note:
If no Sub-Page exists for the Page for which this function has been set, the system will wait indefinitely or until;

(a) the Sub-Page function is cancelled.
(b) the Programme Number is changed.
(c) the TV is switched to STANDBY or OFF.
(d) the RESET button is pushed.
(e) a new Page number is selected.

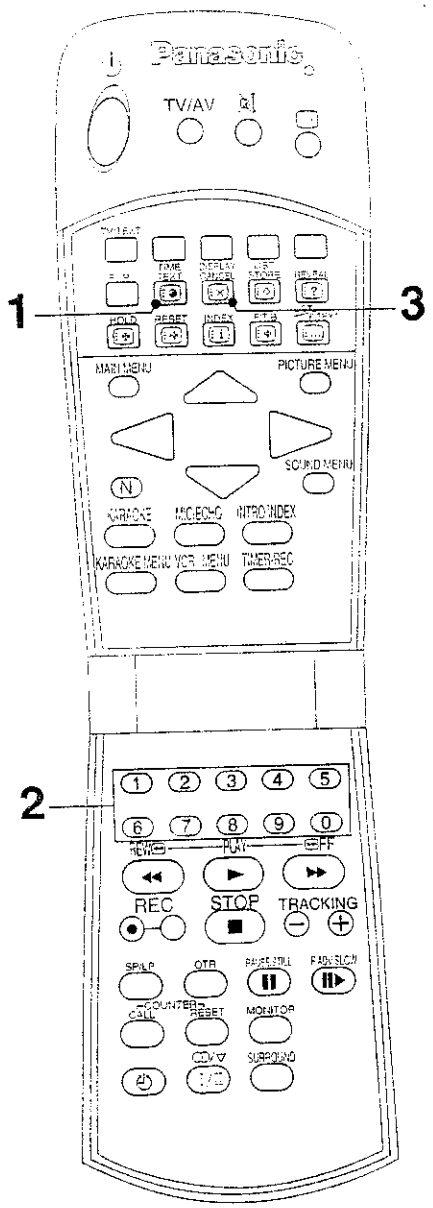
TEXT message Symbol



When the desired Sub-Page is received, the "TEXT" message symbol appears at the top left of the screen.

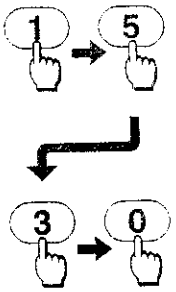
Text ALARM Page Access

This function is used for selected Pages only.
e.g. The Teletext ALARM Page.
Refer to the Subject Index Page for the ALARM Page location.



1

Teletext must be selected first and then the Text ALARM Page must be selected.
Push the "TIME TEXT" Button.

2 

This feature uses the 24 hour clock,
e.g. 3:30 pm = 1530.

To set the time at which the ALARM Page is to be displayd, e.g. 1530, push buttons 1,5,3,0 consecutively.
The "T****"display will change to "T1530" momentarily then return to the current Page number.

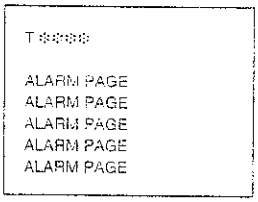
3

Push the "DISPLAY CANCEL" Button to return to the normal TV broadcast.

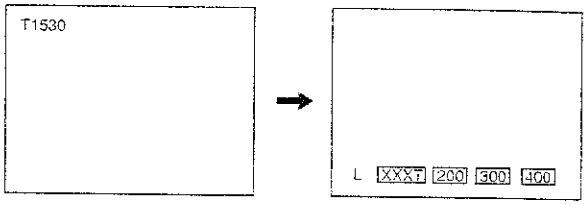
Helpful Hint

To cancel this feature
Push the "TV/TEXT" Button to return to normal viewing.
If you wish to select other Teletext Pages, push the "RESET" Button.

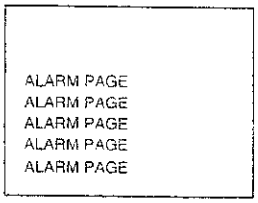
Note:
This function is not currently transmitted in some countries.
(e.g. Australia)



"T****" will be displayed at the top left of the screen; now enter the time at which this ALARM Page should be displayed using buttons 0 to 9 on the Remote Control.



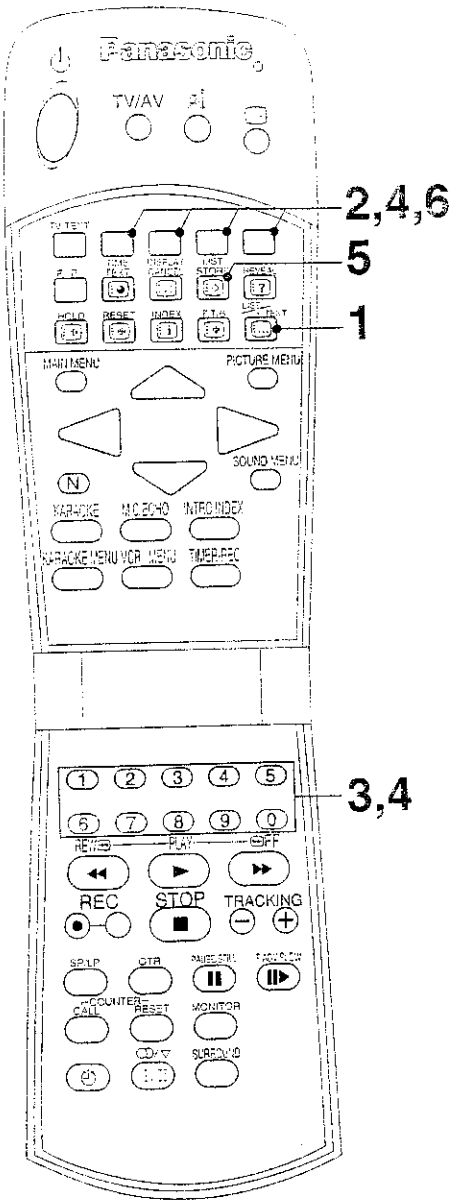
In the "LIST" Mode the letter "T" will appear in the current coloured box at the bottom of the screen indicating that the ALARM Page has been set.



At 15:30 the ALARM Page will be displayed.

List Mode Access

LIST Mode is a convenient way of accessing some Teletext Pages without the need to enter Page numbers.
In this Mode,4 Page numbers can be preset for each Programme Number 1 to 10 (1 to 25 only for TX-33GV15P, TX-29/25GV10P). A maximum of 40 (100 only for TX-29/25GV10P) Pages can thus be programmed. (i.e. 4 Pages 10 (1 to 25 only for TX-29/25GV10P) Programme Numbers) Any one of these 4 Pages can be displayed instantly by pushing the corresponding "colour coded" Button on the Remote Control.

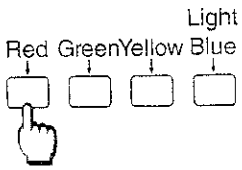


List Mode Page Memory Allocation

1

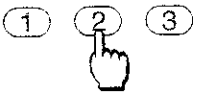
(Teletext must be selected first.)
Select the "LIST" Mode by pushing the "LIST/F.TEXT" Button.
Pushing this Button will switch between the "LIST and F.TEXT" Modes.

2



To select a memory position, push one of the "colour-coded" Buttons.

3



Enter the Page number of the desired Teletext Page by using buttons "0" to "9".

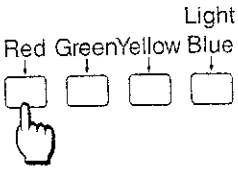
4

Repeat steps 2 and 3 for the remaining colour coded positions if required.

5

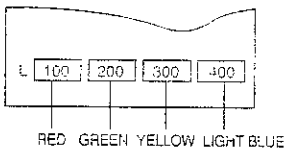
Push and hold the "LIST STORE" Button until the background of the 4 numbers changes from Black to White.

6

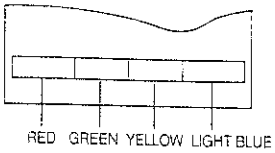


Any one of these 4 Pages can then be displayed instantly by pushing the corresponding "colour-coded" Button on the Remote Control.

List mode



F. TEXT mode



Note:
F.TEXT Mode is currently not transmitted within Australia.

You can also use the "Programme Up or Down" Buttons to enter the page number.

Up to 4 page numbers can be preset for each Programme Number 1 to 10 (1 to 25 only for TX-29/25GV10P).

This stores these Page numbers into memory.

Every time "List" Mode is selected, these 4 Page numbers will flash until all 4 Pages have been received and stored in memory.

Note:

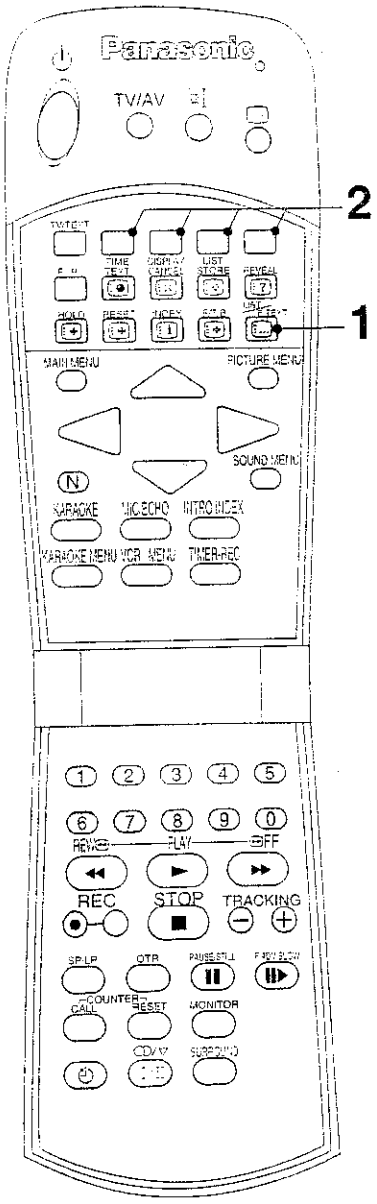
(1) If new Page number is entered for viewing, it will not replace the previous number in the memory at the position unless the "LIST STORE" Button is pushed and held down for a few seconds.
The 4 Page numbers will be reset to the preset numbers when either the "Reset" Button is pushed or the Programme Number is changed, or the Mode is changed to F.TEXT and then returned to LIST mode again, or the TV set is turned off.

(2) The 4 preset Page numbers can be changed when required by following stops 2 to 5 above.

(3) Page number presetting can only be performed on Programme Numbers 1 to 10 (1 to 25 only for TX-29/25GV10P).

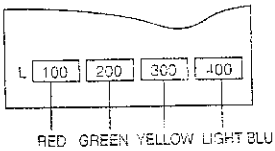
Fast Text (F.TEXT) Mode Access

In "F.TEXT" Mode, select the desired Teletext information by pushing one of the "colour-coded" Buttons on the Remote Control which corresponds with the coloured subject title on the screen.

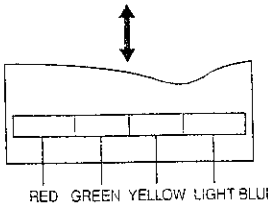


1

(Teletext must be selected first.)
Push the "LIST/F.TEXT" Button to select "F.TEXT".

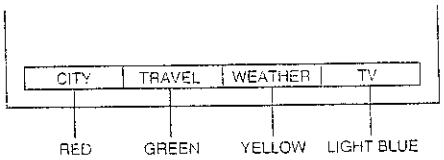


List mode

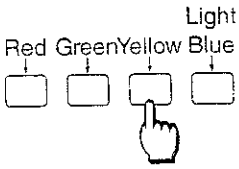


F. TEXT mode

e.g. The on-screen display with these subject titles.



2



e.g. Viewing the "Weather" page.
Push the "Yellow" Button on the Remote Control.

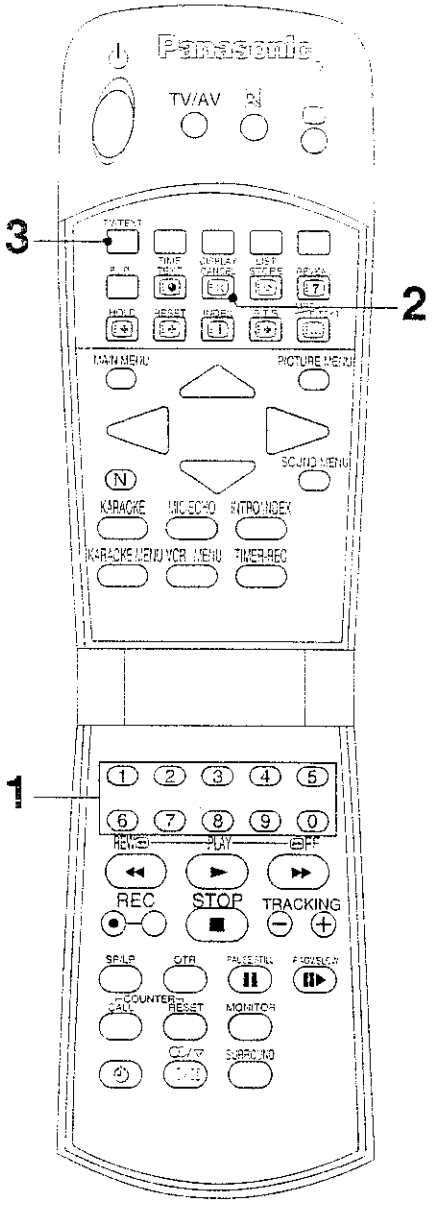
3

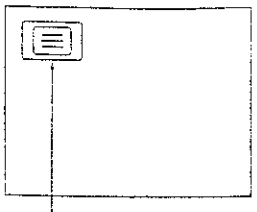
Follow the same procedure to access other colour coded information Pages.

Note:

1. Subject's titles and their sequence for access are setup by TV broadcast stations; they are not user definable with the Remote Control.
2. It is a convenient way of accessing some Teletext Pages without the need to enter Page numbers.
3. This function is not currently transmitted in some countries. (e.g. Australia)

Display Cancel Operation





TEXT message symbol

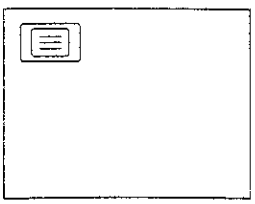
(Teletext must be selected first.)
While a selected Page is being searched for, the normal TV picture can be viewed by pushing this button.
When the Page is found, the "TEXT" message symbol will be displayed at the top left corner of the screen.
Pushing the "TV/TEXT" Button will display the selected Page.

Method (To watch a newsflash Page)

1

In the Text Mode, select a newsflash Page.
e.g. Page No. 155

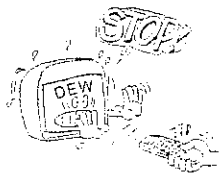
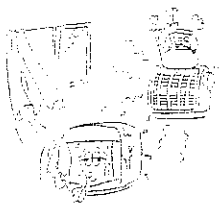
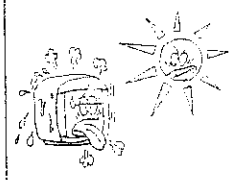
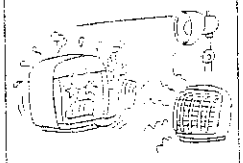
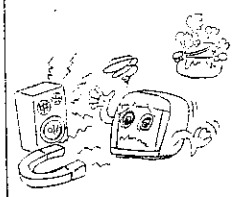
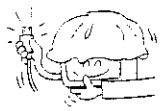
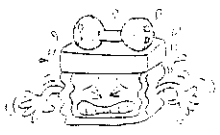
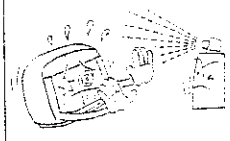
2

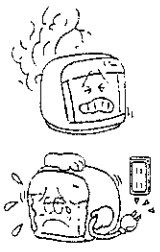


Push the "Display Cancel" Button.
The TV screen is switched from the Text Page to the normal TV programme.
Every time a newsflash information update is available, the newsflash information will be displayed at the botton of the screen.
When that Page is found, a message will be displayed at the top left corner of the screen.

3

Push the "TV/TEXT" Button.

	When a dew condensation phenomenon occurs, indication of "dew condensation" appears and the cassette tape is ejected. Indication of "dew condensation" ceases soon. When you want to operate the VCR, wait for a while until the said indication ceases. While "dew condensation" is indicated, the VCR does not work even if you push any operation buttons, but you can watch the TV. Indication of "dew condensation" will cease within several hours at latest. Such time may differ according to circumstances. As generally dew condensation advances gradually, and indication of "dew condensation" may appear 10-15 minutes after the beginning of dew condensation.		Conditions which cause dew condensation are as follows. It may occur if the TV/VCR and the cassette tape were moved to another place where there are great changes of temperature and humidity. • A humid place where the air is thick with steam. • When the TV/VCR was suddenly moved from an air-conditioned room to a hot and humid place. • The room was heated quickly. When the rotary cylinder is stained with condensation droplets, the tape may adhere to the rotary cylinder. It may interfere with normal forwarding of the tape and the tape may be damaged.
	Do not put the TV/VCR set in a place where it is exposed to the direct rays of the sun for a long time.		Do not put the TV/VCR set in a place where it is exposed to a spotlight, heating appliance, smoke, steam etc.
	Do not put the TV/VCR set in a place which is dirty or damp or near a strongly magnetic object.		Do not block the ventilating holes.
	Always remove connection cable when moving the TV/VCR. When you carry the TV/VCR to a distant place, always wrap it in a blanket or something protective.		Do not put heavy objects on the TV/VCR.
	Do not give the TV/VCR a physical shock while carrying it.		Do not spray insecticide or volatile solvent upon the TV/VCR. Do not allow rubber and vinyl products to contact the TV/VCR for long periods. They may cause changes in quality and peeling of the paint.

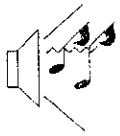
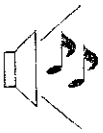
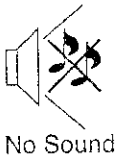
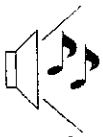
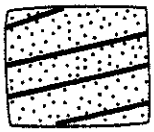
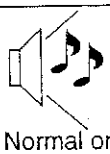
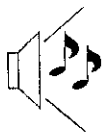
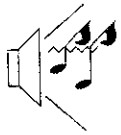
	Always pull out the power plug by holding the plug itself. Do not pull the cord.		Do not open the cabinet. • To touch the inside is extremely dangerous.
	Do not bring a heating appliance close to the power cord.		Do not alter the power cord.
	Do not place heavy objects across the power cord.		Do not insert anything except a video cassette tape into the insertion slot. • Especially, take care that your child does not put his/her hand into it. He/she may get hurt.
	Wipe off any dirt on the cabinet and operation panel with a soft cloth. • When you use a chemical dustcloth, read the that is supplied with it manual carefully. • When the dirt does not come off, soak the cloth in a neutral detergent diluted with water and squeeze it dry and then wipe off the dirt. Then, wipe with a dry cloth.		Wipe dirt from the surface of the picture tube with a soft dry cloth.
	You may feel weak electricity when you touch the surface of the picture tube. Static electricity is responsible for it. However, it does not have a bad influence on a person.		Do not use this set if abnormal operation occurs. Ex: Smoke, odd sounds, or smells. Turn the power switch off and disconnect the AC plug, if you notice any unusual operation.
	Do not put any vessel containing water on or near the TV set.		

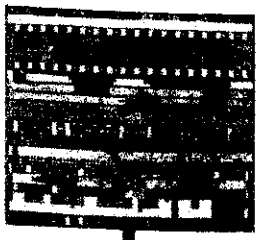
When you suspect the TV is out of order, check the following points before requesting Service.
Refer to either the shop where the pruchase was made or the nearest Authorised Service Centre if the malfunction cannot be corrected.

Symptoms	Checks
The power is not supplied.	Is the power plug disconnected?
	Is the main power switched ON?
The programme selected is not displayed clearly.	Is the aerial connected properly?
	Is the received signal weak?
Spots appear on the screen.	Is the reception being disrupted by car, train, high tension cable, neon light interference?
The picture has double or treble images.	Has the direction of the aerial been changed? It may change after a severe wind.
	Signal reflection from surrounding mountains or building may affect on the picture.
Interference pattern appears	Such symptoms may occur when the transmitting aerial for a radio station or a ham operator is near the TV.
The channel number does not disappear from the screen.	Is the RECALL Button pushed? → Push it again.
Inferior tint, light colour.	Have the Colour and Tint been adjusted? (Check the adjustment values.)
The TV sometimes produces a cracking sound.	If the picture and sound are normal, it may probably be the sound from the cabinet which expands and contracts according to change of room temperature. This is not a malfunction.
The Remote Control does not work.	Is the transmitter oriented toward the receiving window on the TV?
	Do you operate the Remote Control within 7 m from the receiving window? (within 30° from right and left: within 5 m from the receiving window) (7 m range on axis, 5 m at 30°)
	Are there any obstacles between the Remote Control and the receiving window?
	Are the batteries dead? Are the batteries fitted properly?
	Is the receiving window being exposed to sunlight or strong fluorescent light?

Symptoms	Checks
The volume is low	Check whether the VOICE CUT mode of KARAOKE Menu is turned ON. → Turn the VOICE CUT mode OFF if it is set at on.
The cassette tape is ejected immediately after insertion.	Is DEW CONDENSATION displayed on the screen? → Wait for a while until the indication disappears.
	Is PICTURE RECORDING mode on? → When a tape with erasure prevention tab removed has been inserted, in ONE-TOUCH RECORDING, ONE-TOUCH TIMER RECORDING or PROGRAM TIMER RECORDING Modes, the tape is automatically ejected.
The TV does not operate although the power is switched on.	Various safety devices have been triggered. → Switch off the main power supply and switch on it once again, after waiting a few minutes.
PICTURE RECORDING Mode can not be switched on.	Has the record tab been removed from the tape? Is the TIMER RECORDING Mode on?
TIMER RECORDING Mode can not be switched on.	Is the present time set properly? Has the record tab been removed from the tape?
	Are the starting time and ending time set properly?
	Has the TIMER RECORDING Button been pushed?
	Is either ONE-TOUCH RECORDING or ONE-TOUCH TIMER RECORDING Mode set on?
No colour in picture reproduction, on tape playback.	Has tracking been adjusted? → Adjust the tracking.
Snowy picture on tape playback	Are the video heads dirty? → Request professional Service. Are the video heads worn out? → Replace them. Is the tape old?
Flickering	Is the tape old?
The digits of the tape counter do not change, during tape playback.	Is a non-recorded part of the tape being played back? → When a non-recorded part of the tape is played back, the screen becomes blue and the tape counter does not advance.
The picture sourced from on AV INPUT shakes or does not appear.	Such symptoms may occur when the input is set to AV INPUT and no signal is received at the video input terminals.
When a tape recorded by PAL system of 3 times the normal speed is playback after fast forwarding or rewinding, the colour tends to fade out.	This is caused by safety devices triggered by erroneous functioning.

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	 Noisy Sound	Aerial Location, direction or Connections
Multiple Image	 Normal Sound	Aerial Location, direction or Connections
Interference	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent Lamps
Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)
No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness/Volume setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.)
No Colour	 Normal Sound	Colour Control
 Scrambled	 Normal or Weak Sound	Retune Channels
Coloured Patches	 Normal Sound	Magnetic interference from unshielded equipment TV set moved while "ON" Turn the TV set off for 30 mins, using the "Main Power" Button on the TV set.
No Colour	 Noisy Sound	Sound System (Refer to page 32) Colour System (Refer to page 32)



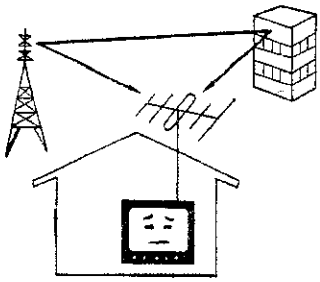
• MISSING CHARACTERS
• MALFUNCTIONS

• GHOSTS

• SNOWY

• SPURIOUS
• CROSS MODULATION
• INTERFERENCES

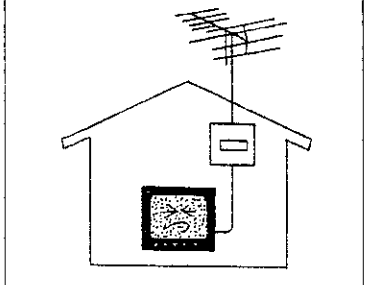
CAUSE



CHECK STEPS

1. Aerial connection.
2. Missmatching of aerial cable.
3. Aerial direction.

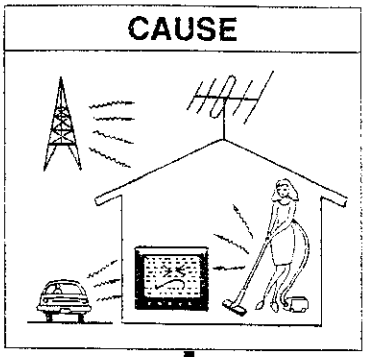
CAUSE



CHECK STEPS

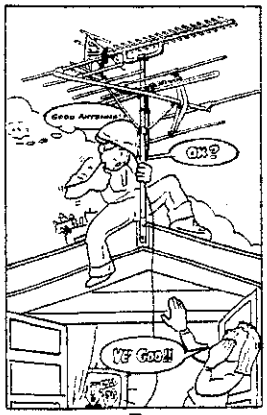
1. Aerial connection.
2. Missmatching of aerial cable.
3. Booster or distribution amplifier unit.
4. Input signal strength should be more than 55dB.
5. Indoor antenna.

CAUSE



CHECK STEPS

1. Booster.
2. Too much input signal to Booster.
3. Interference from other equipment.



Still no good

CONTACT PANASONIC AUTHORIZED SERVICE CENTRE.

Power Source	AC 110-240 V, 50/60Hz		
Power Consumption	Type 25 182 W Stand-by condition 36 W (VCR REC) 18 W (VCR STOP)	Type 29 208 W Stand-by condition 36 W (VCR REC) 18 W (VCR STOP)	
Receiving System	21 Systems		Function
	1 PAL B, G 2 PAL I 3 PAL D 4 SECAM B, G 5 SECAM D, K 6 NTSC M (NTSC 3.58/4.5 MHz)		Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
	7 NTSC 4.43/5.5 MHz 8 NTSC 4.43/6.0 MHz 9 NTSC 4.43/6.5 MHz 10 NTSC 3.58/5.5 MHz 11 NTSC 3.58/6.0 MHz 12 NTSC 3.58/6.5 MHz 13 SECAM I 14 SECAM L		Playback from Special VCR's
	15 PAL 60 Hz/5.5 MHz 16 PAL 60 Hz/6.0 MHz 17 PAL 60 Hz/6.5 MHz 18 SECAM 60 Hz/5.5 MHz 19 SECAM 60 Hz/6.0 MHz 20 SECAM 60 Hz/6.5 MHz 21 NTSC 50 Hz/4.5 MHz		Playback from Special Disc Players and Special VCR's
Receiving Channels	VHF BAND	UHF BAND	CATV
	2-12 (PAL/SECAM B) 0-12 (PAL B AUST.) 1-9 (PAL B N. Z) 1-12 (PAL/SECAM D) 1-12 (NTSC M JAPAN) 2-13 (NTSC M U.S.A.)	21-69 (PAL G, I/SECAM G, K) 28-69 (PAL B AUST) 13-57 (PAL D) 13-62 (NTSC M JAPAN) 14-69 (NTSC M U.S.A.)	S1-S20 (OSCAR) 1-125 (U.S.A.) C13-C49 (JAPAN) 5A, 9A (AUST.)
Tuning System	Frequency synthesizer		
Picture Tube		Type 25	Type 29
	Overall Picture tube measured diagonally	63 cm	72 cm
	Viewable Picture tube measured diagonally	59 cm	68 cm
	CRT Deflection	108°	112°
Audio Output	Type 25 7 W (Max) × 2	Type 29 12 W (Max) × 2	
Microphone	Impedance 600 Ω		
Aerial Impedance	75 Ω Unbalanced coaxial		

Video/Audio Terminals	AV 1, 2	S-Video In Video In Audio In	Y: 1.0 Vp-p, 75 Ω C: 0.3 Vp-p, 75 Ω 1 Vp-p, 75 Ω Approx. 400 mV 47 KΩ
	VCR Out	Video Out Audio Out	1 Vp-p, 75 Ω Approx. 400 mV 1 KΩ
	Surround Terminals Impedance	8~16 Ω	
Video Recording System	4 heads recording system		
Tape Speed	NTSC	PAL	
	SP 3.33 cm/sec	SP 2.339 cm/sec	
	LP 1.11 cm/sec	LP 1.169 cm/sec	
Tape Format	VHS Tape		
Record/Playback Time	NTSC	PAL	
	SP 120 min. with T-120	SP 240 min. with E-240	
	LP 360 min. with T-120	LP 480 min. with E-240	
FF/REW Time	Approx. 3.5 min. with E-180		
Television System	NTSC 525 lines, 60 fields		
	PAL 625 lines, 50 fields		
Modulation System	Luminance; FM azimuth recording Colour Signal; converted subcarrier phase shift recording		
Audio Track	1 track (mono only), 2 channels (Hi-Fi sound-stereo)		
Audio Characteristics	Frequency response	SP 100 Hz ~ 8000 KHz (–10dB)	
		LP 100 Hz ~ 5000 KHz (–10dB)	
	Wow and flutter	SP 0.2 %	
		LP 0.4 %	
Operating Temperature	5 °C ~ 40 °C		
Operating Humidity	35 % ~ 80 %		
Accessories Supplied	Remote control Transmitter R6 (AA) Battery × 2		
Dimensions (W × D × H)	Type 25	Type 29	
	606 mm × 447 mm × 542 mm	668 mm × 450 mm × 589 mm	
Weight (Mass)	Type 25	Type 29	
	38.0 kg (Net)	48.0 kg (Net)	

Note:
Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.